

THE AMERICAN School Board Journal

June



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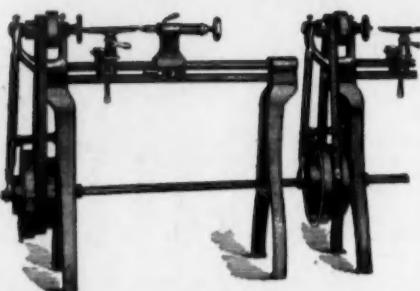
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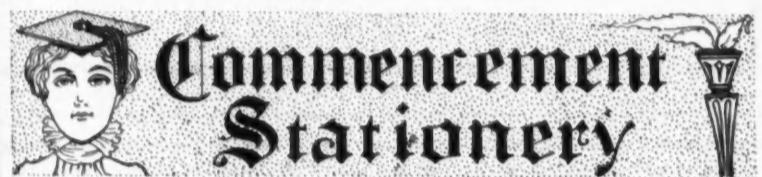
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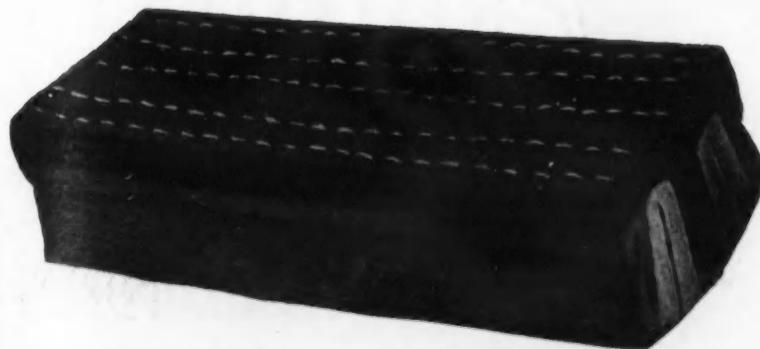
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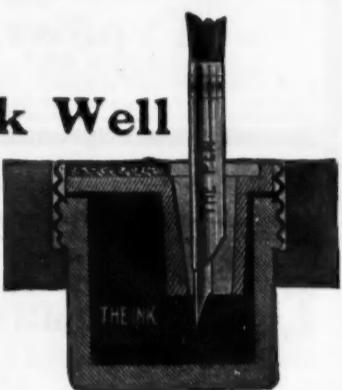
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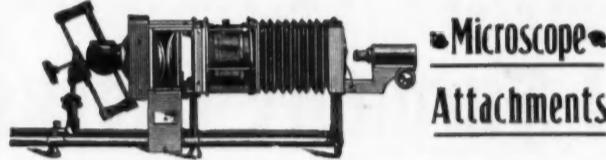
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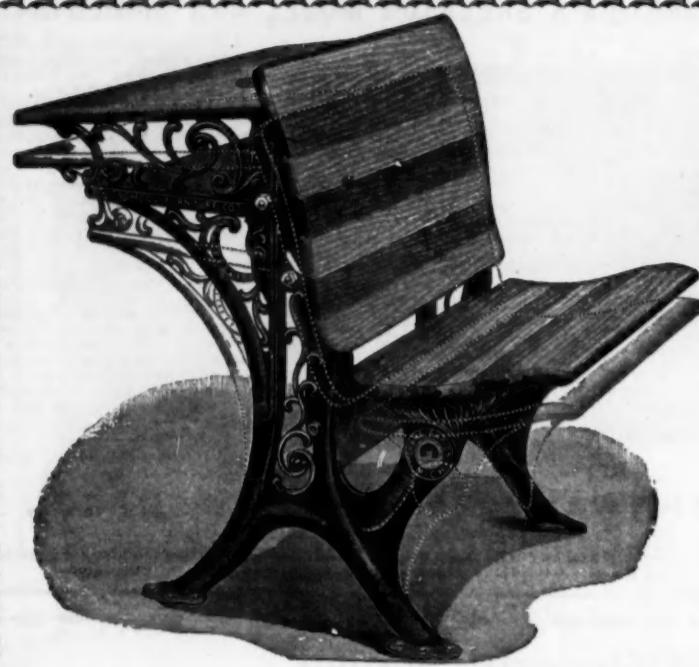
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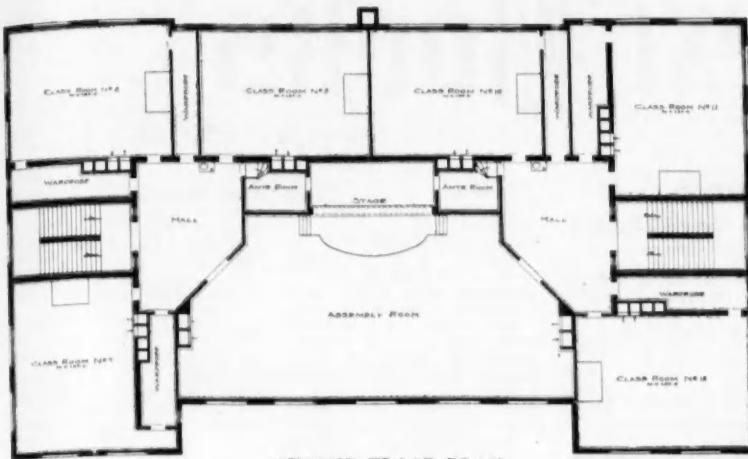
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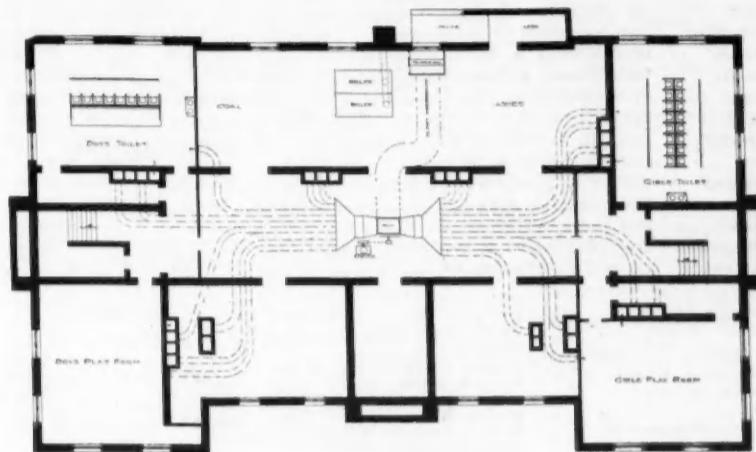
SECOND FLOOR PLAN.



FRONT ELEVATION PLAN.

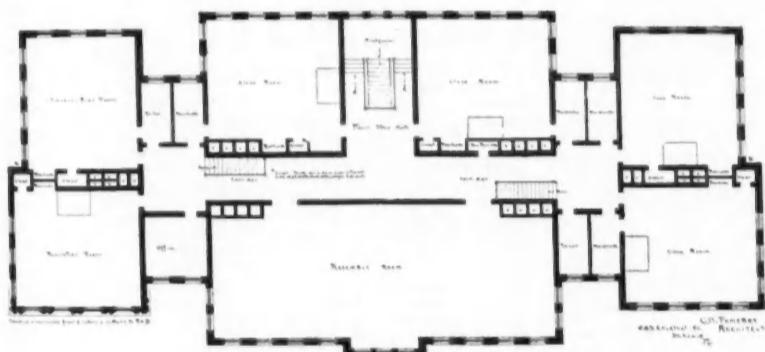


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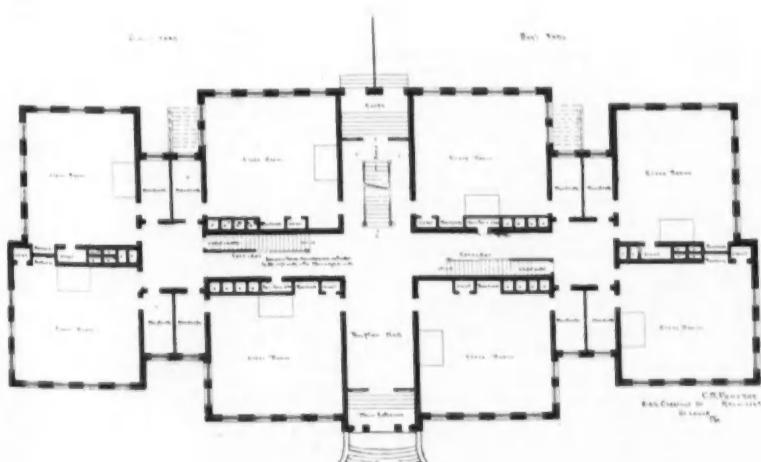
COMPETITIVE SCHOOL HOUSE PLAN. E. H. Davis, Architect, Scranton, Pa.



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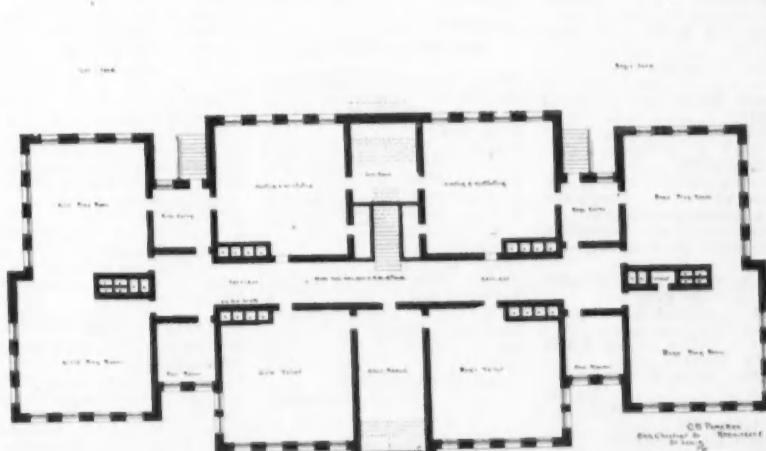


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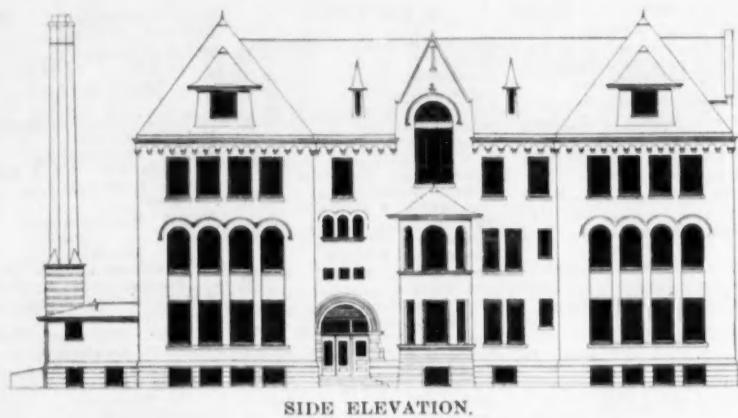
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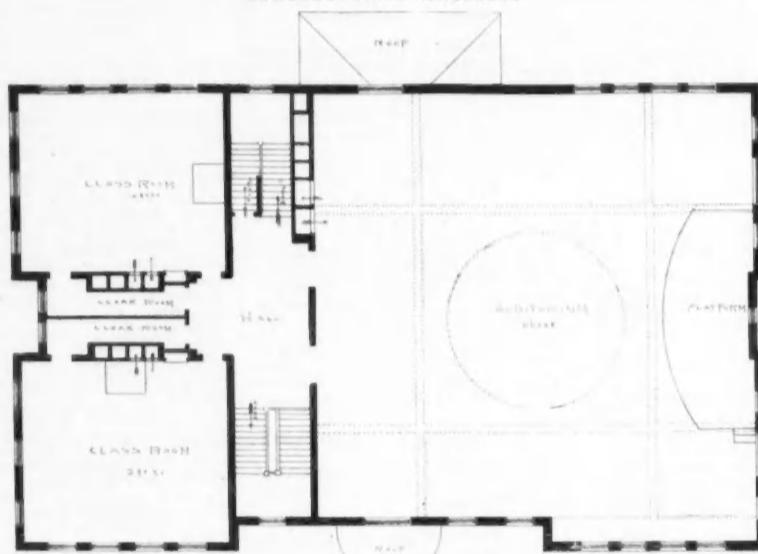
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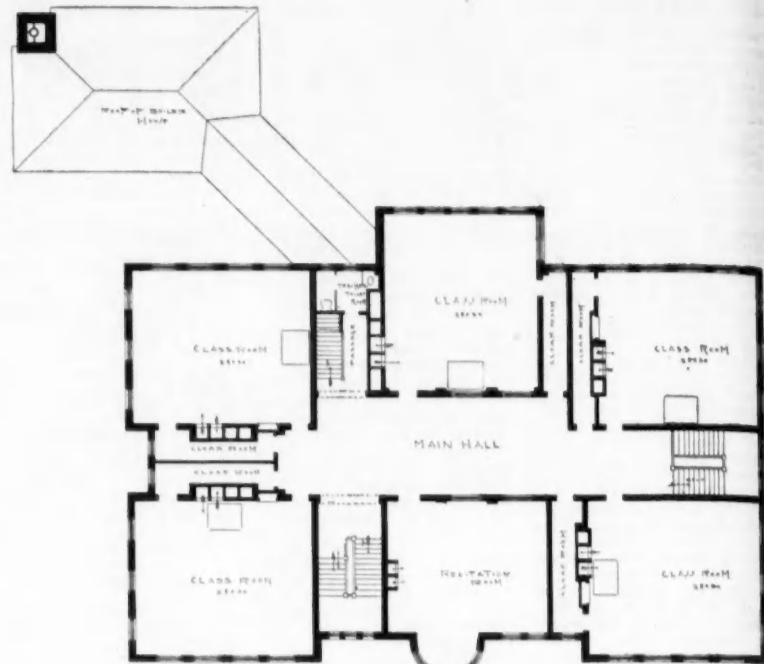


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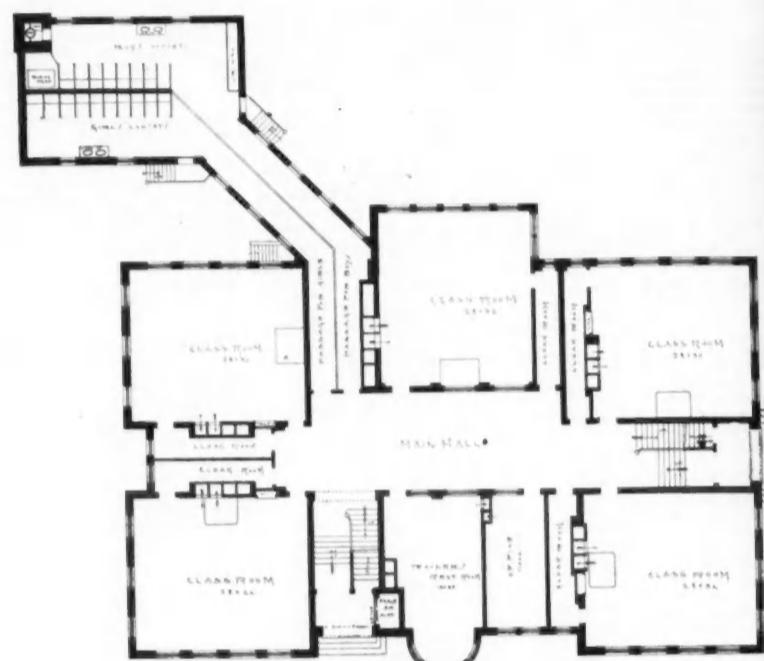
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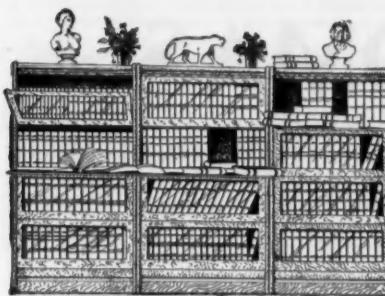
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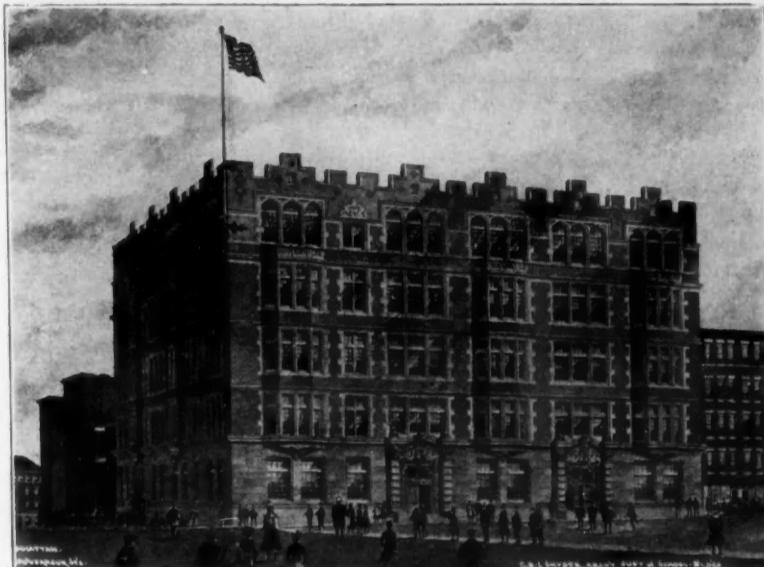
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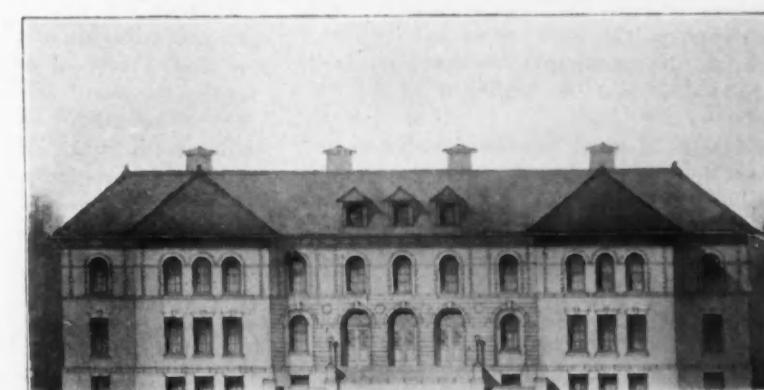
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School Laws

RECENT DECISIONS.

California. It has been decided in the courts that Chinese children will not be permitted to attend the public schools, but must be educated in the institutions especially provided for them.

Topeka, Kan. The Supreme Court has decided the Topeka board of education can maintain separate schools for white and negro children, and can compel negro children to attend negro schools.

Chicago, Ill. Supt. Cooley has issued an order prohibiting principals and teachers from shaking unruly pupils.

Carlisle, Pa. An opinion has been recently handed down that a governess or private teacher, even without any certificate, is legally qualified to teach, and that if proper instruction is given at home a scholar need not attend the public schools.

Hazelhurst, Miss. The Supreme Court has decided that a school board has no right to perpetuate itself in office and fill its own vacancies.

Boston, Mass. In a recent answer to the mayor, the corporation counsel decides that the board of schoolhouse commissioners must provide accommodations for pupils and make all necessary repairs on school buildings.

NEW RULES AND REGULATIONS.

Newburyport, Mass. The board adopted the following new rules:

No child shall be kept over two years in any one grade, without consultation with the superintendent.

Promotions of pupils of the first, second and third grades shall be made by the teachers.

A monthly record shall be kept of each pupil's scholarship, which shall be the basis upon which the judgment of the teacher and superintendent shall depend in deciding upon the fitness of the pupil for promotion.

Promotions from the fourth to the ninth grades inclusive shall be made by the principal of the school and the superintendent.

Whenever a pupil fails to perform the work of a grade faithfully the teacher shall inform the parent or guardian, and unless there is sufficient improvement after a trial of three months to warrant the continuance in the grade the pupil may with the approval of the principal and superintendent be dropped to the grade below.

Non-resident pupils shall be admitted to the fourth class of the high school by written examination, the questions to be prepared by the superintendent and the principal of the high school.

Clarksville, Tenn. The board in appointing teachers for the ensuing year has imposed the following conditions:

Applicants for high school work should (1) be graduates of reputable colleges or State normal schools, (2) hold at least a bachelor's degree, (3) have made some study of pedagogy, and (4) have had some experience in teaching, two to five years.

Applicants for grade work must have completed in a creditable manner a thorough course of study equivalent at least to that of a four-years' course in a first-class high school, and have had professional training in (a) the science of teaching and (b) the art of teaching, and qualification (4) above. Preference will be

extended those having qualifications (1) and (2) also.

Furthermore, in addition to the qualifications indicated for grade work teachers of the lowest primary grades should have had special training for and experience in primary work—kindergarten training preferred.

In short, teachers are desired who have been educated, trained, and know how to teach well, not merely persons desiring a position.

BUSY SUPERINTENDENTS.

Palermo, Me. A bank book showing a deposit of \$1 in the savings bank was recently handed out to each student in the high school by one of the teachers. The account cannot be drawn out within ten years.

New York City. A boys' organization in one of the public schools have adopted a method to assist the teachers in decreasing the tardiness so prevalent among pupils. The "Stars and Stripes" float over the building until 8:45 a. m., and fortunate is the pupil who arrives before a white flag with a black blot in the center is raised. At 9 o'clock the tardy flag is taken down and all those entering afterward are admonished.

Long Island City, N. Y. The penny savings system inaugurated several years ago as an experiment has proven an unqualified success. The theory was to induce "habits of economy" and to reduce the cigarette smoking and gum-chewing habits indulged in by the pupils. J. H. Thiry, a local school board member, is credited with being the originator of the scheme and since the inauguration of the system one school has deposited \$150,000, with \$35,000 on deposit at the present time. In Los Angeles, Cal., the system has been in operation two years and the pupils have saved \$38,000. Owosso, Mich., with its four small schools has \$1,977 on deposit.

New Haven, Conn. The pupils of the public schools have adopted a novel method of obtaining money to decorate the schools. The plan is that each pupil bring in all the old rubber boots, shoes, etc., that have been discarded and this is sold to junk dealers. The proceeds are invested in pictures and decorations.

Superior, Wis. The school board has adopted the ten month's school year plan, the same to take effect the coming school year.

Atlantic City, N. J. Because of trouble to retain school teachers last year, the board of education has decided that in the future each applicant must sign a contract to complete the term.

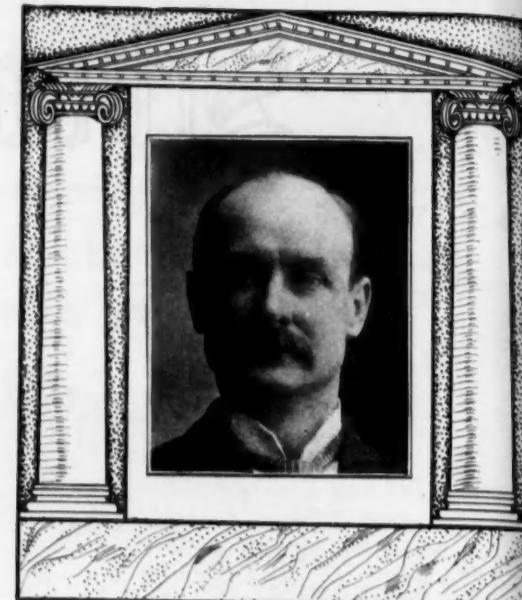
Union City, Mich. No school teachers will be reappointed by the board of education unless they will agree to give up dancing during the school year.

Jacksonville, Ill. The school board have adopted a resolution that applications of teachers must receive a majority vote of the members of the board before appointment.

St. Paul, Minn. Fire drills have been ordered in the public schools by the board of education. The action was prompted by a fire in one of the buildings.

Newburyport, Mass. A motion to revert from the vertical to the slant system of writing was lost.

Marshall, Mich. Professor Fall, superintendent of public instruction, has inaugurated a work that may be regarded as second only in importance to the consolidation of rural schools. In the movement just established uniformity in the courses for high schools is the end desired. A committee of leading educational men will carefully survey the subject and give its report to the State Teachers' Association at its next meeting next winter. The object is not to make



SUPT. G. V. BUCHANAN,
Sedalia, Mo.

the uniform course of study compulsory but to make the course such that it will be advisable for many schools to adopt and adhere to it closely.

New York, N. Y. The board of education have decided to bar "Uncle Tom's Cabin" from the libraries, claiming that its mission has been fulfilled.

Topeka, Kan. The board of education has offered prizes for the best plans for the new school building. The successful architect will receive one and one-half per cent of the cost of the building built from his plans. Second prize, \$50. Third prize, \$25.

An efficient but inexpensive system of disinfection for public schools is given by the Fairmont, W. Va., Press. The apparatus consists of a small spirit lamp, a tin coffee pot and a pint of formaldehyde disinfectant. This is placed in the center of the room, all windows and doors of which are securely closed and all cracks carefully stuffed with cotton or other material and allowed to evaporate over the spirit lamp. This process requires three or four hours and should be done on Friday evening after dismissal. Care should be taken in the handling of the disinfectant as it is very inflammable. Saturday the room should be thoroughly aired to be in readiness for occupancy Monday morning.



The Explanation.

Wife: How is it that school board of yours keeps you out so much later than it used to?

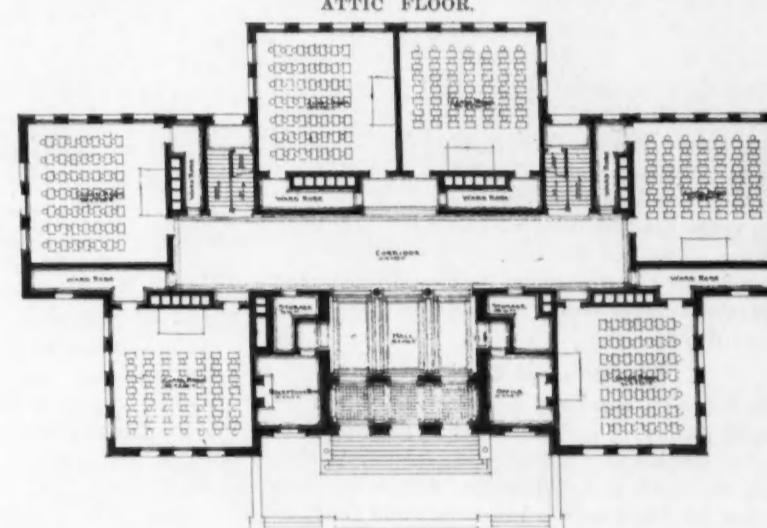
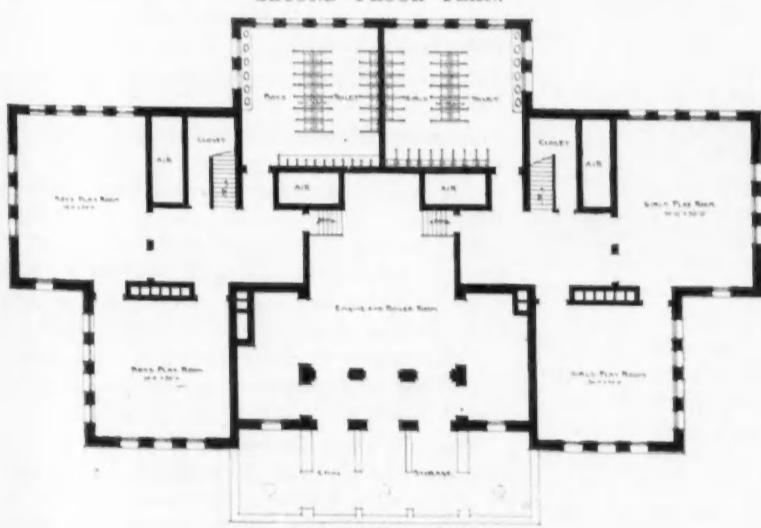
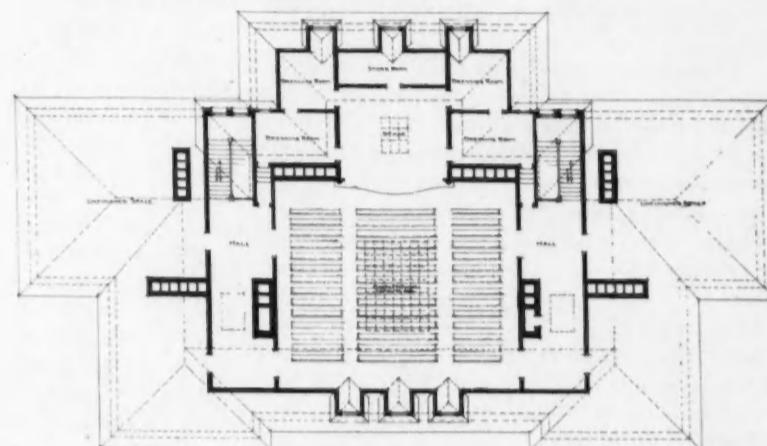
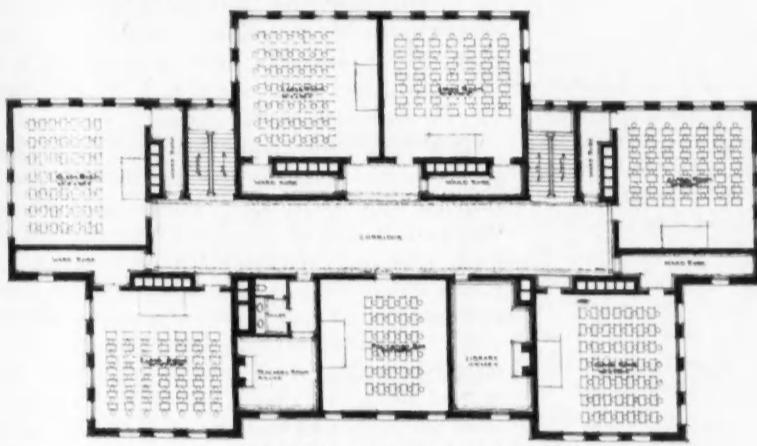
School Director: Oh! we've made a new rule that only one member can speak at a time.



TOWER AND WING OF NEW WADLEIGH HIGH SCHOOL, NEW YORK CITY.
C. B. J. Snyder, Supt. of Buildings.



NEW MANUAL TRAINING SCHOOL, EAU CLAIRE, WIS.
Chandler & Park, Architects, Racine, Wis.



Floor Plans, Model School House Design (see Prospective on first page).
Alexander C. Wolf, Architect, Cleveland, O.



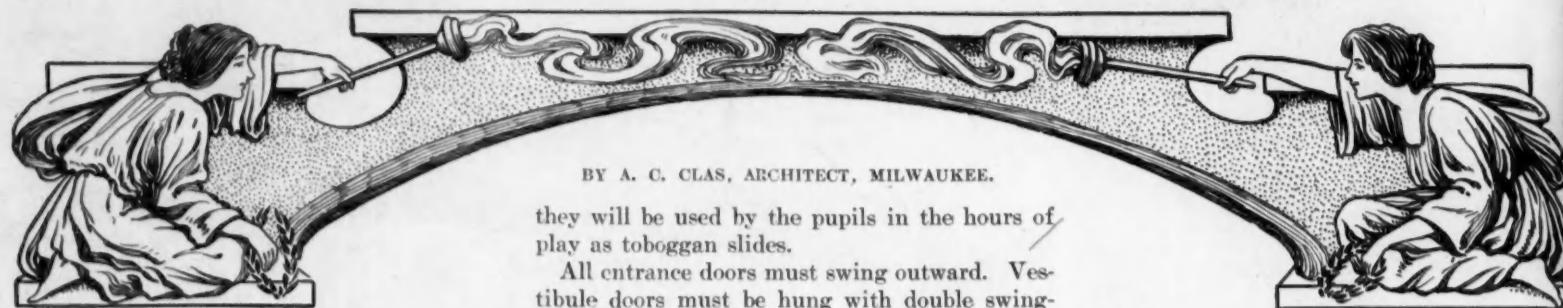
NEW NORMAL COLLEGE, OHIO UNIVERSITY, ATHENS, O.
Frank L. Packard, Architect.



X NEW NORMAL SCHOOL DORMITORY, WESTFIELD, MASS.
Cost, \$65,000. E. C. & G. C. Gardner, Architects, Springfield, Mass.

RECENT MODERN SCHOOL ARCHITECTURE.

Modern School House Architecture.



BY A. C. CLAS, ARCHITECT, MILWAUKEE.

they will be used by the pupils in the hours of play as toboggan slides.

All entrance doors must swing outward. Vestibule doors must be hung with double swinging spring butts.

All large school buildings should be provided in addition to good staircases, with properly constructed fire-escapes, leading from main corridors of the respective floors to the grade of lot. These fire escapes are to be constructed of iron in the shape of a platform stair, with good strong iron railings, and should be connected with the corridors by a window cut down nearly to the floor or a sash door.

Schoolroom.

As to the school or classroom there is little, or no original work left for the architect to do. The size of the schoolroom, 32 feet long, 28 feet wide, and 13 feet 6 inches high, seating 56 grammar grade pupils, seems to preserve the unit of the schoolroom. The question of a smaller room has often been discussed from the educational point of view. If the classes are smaller the teacher can give greater care to the training of the individual scholar, and the possibility of a more rapid promotion is assured. Better light is also assured for the smaller classroom; this as I have stated before, is often necessary where the lot is not ample in size and the danger of shadows of adjoining buildings are to be considered. The length of the schoolroom should not be greater than 32 feet, and the width is more or less governed by the proper arrangement of desks. The desks are two feet wide and the distance between them should not be less than 18 inches; thus seven desks with aisles make up 28 feet—the width of the standard room. Each pupil should have an area of at least 13 square feet.

Lighting.

In the lighting of a schoolroom the light should come from the left hand side of the pupil, and we are certain there can never be too much light in a schoolroom; it should be flooded with light, so that the darkest place in the class may have light enough on a dark day.

A schoolroom to accommodate from 50 to 60 pupils and have the necessary air space, means naturally a large room and the successful lighting of same is a most serious problem, in which the architect and educator must work hand in hand.

Perhaps the best scheme for lighting a schoolroom would be to have the whole left side practically filled with glass. Light opposite the teacher's desk should not be used unless absolutely necessary, and then only if the windows are placed well in the angles, leaving a broad, blank wall opposite the platform. So long as the eyes are not dazzled and no shadow falls on the reading or writing, it is impossible to have too much diffused light in the schoolroom. There should be at least one square foot of glass to every five square feet of floor. The height of windows should be three feet from the floor and six inches from ceiling. As to the best exposure, opinions differ; while artists, draughtsmen and photographers want north light, I think a southern exposure for the schoolroom is the best, so that during some part of the day the room shall be filled with sunshine.

While our educational system has improved in plan and equipment, so also have our school buildings improved in architectural merit. The schoolhouse is a great workshop where our children live and work from four to six hours each day; it, therefore, demands our direct attention and it must be as carefully considered as the appointments of a hospital building, by reason of its hygienic importance. Many of the children of our schools have plenty of poor ventilation and foul air at their homes, therefore, let us endeavor in the school-room to supply them with pure air, uniform temperature, plenty of sunlight, cheerfulness, refinement and comfort.

The model school-room of to-day shows many improvements, not, however, due entirely to the talents of the trained architect, but as well to the good efforts, the constant struggles of school boards and progressive citizens.

It rarely happens that the architect is given a choice as to proper location, a factor of the first importance in establishing a new schoolhouse.

It should be removed from noise, dust or odors arising from factories, stables or the like; it should be completely isolated on all sides so that no surrounding buildings or trees shadow it, but will always be assured of the best sunlight and ventilation. It should stand high and dry and the grounds should always be ample in size, affording ample playgrounds.

Of course it often occurs that schoolhouses must be built in thickly settled tenement quarters, where scarcely enough room can be found for the purpose. These buildings require careful study, and the only way of meeting such unfavorable conditions of site and lighting is to change somewhat the customary standards employed under more nearly ideal conditions. For instance, smaller rooms and smaller classes and more of both.

Entrances and Corridors.

It is hardly necessary to argue that entrances should be liberal and direct, that the corridors lead as quickly as possible to the staircases, that both the halls and staircases should be well lighted by direct light. The treads and risers of all stairs must be easy, and, if possible, all staircases ought to be fireproof, and should be so arranged that the pupils of the upper floors can enter or leave the building without mingling in the first floor halls with the pupils of the lower floor, thus avoiding confusion and noise.

The main hallways should be at least twelve feet wide, the stairs should not be less than five feet wide, and should be platform stairs, with two or more runs, with large, square landings. No circular stairs should be used. Stairs in all cases should be walled or boxed in, and no open stairs should be used in which the newels, rails, balusters and open wells are found, as they are a constant menace to life and limb, in the case of a sudden rush and excitement occupants of the upper floors climb over those flimsy rails in order to go down and out, or

Wardrobes.

Every wardrobe or cloakroom should be enclosed within four walls, must be well heated and thoroughly ventilated and directly lighted from outside, as under no other condition is it possible to prevent the odor of damp or unclean clothing from entering the schoolroom.

The old-fashioned corridor system is, undoubtedly, the least expensive, as it does not add to the area of the building. The wardrobe in the basement or a general large room is not to be recommended, as it is somewhat hard to maintain school discipline, and again, it crowds the children too much in one central spot. The cloak rooms should be directly connected with each room, and there ought to be two to each, one for boys and one for girls.

They should be ample in width, and should be properly connected with the classroom through wide doors, which should be located at the opposite end of wardrobe from the exit of same into the corridor. The doors from the classroom to the wardrobe room and from the wardrobe to the main corridor must swing outward. The partition hat and cloak room in a main hall is often used, because it is handy and easy of access and can be heated and ventilated from the main hall without extra expense, as it is open at the top and does not run to the bottom, giving a free circulation of air; but on the other hand they often cause confusion in entering and leaving the room, and the noisy urchin has it all his way.

Architect Warren Richard Briggs, in his book on schoolbuildings, recommends "that the walls of the main halls should be used for wardrobe purposes, and the regular wardrobe dispensed with," and as his reason he states, that the teacher standing anywhere in the hall, near her room door, has her entire class under full control, and that, furthermore, there is a large saving of expenses in construction, besides the saving of extra heating and ventilation, which, as I said before, the separate wardrobes require.

The only objection raised as far as he knew was that the clothes look unsightly in the hall, to which he replied that the schoolhouse is not an art gallery, but a busy place, and if the aesthetic sense of our sensitive people are prostrated by the view of our children's outer garments hung neatly on the walls, they had better stay out of the building.

Playrooms.

Good and ample playrooms are absolutely necessary in every schoolbuilding. Usually they are located in the basement, sometimes on the upper floors, and in larger sites where ground is valuable, they are placed on the roof and enclosed with wire or glass screens; in any case, they should be large, well-lighted and ventilated, and the windows should be from two sides, at least so that they can be thoroughly flushed by the outer air.

(This article is concluded on subsequent pages.)

NEW
14 Rooms,
By courtesy of

CLASS ROOM
27' 4" x 33' 0"

CLOAK ROOM

CLASS ROOM
27' 0" x 33' 0"

CLOAK ROOM

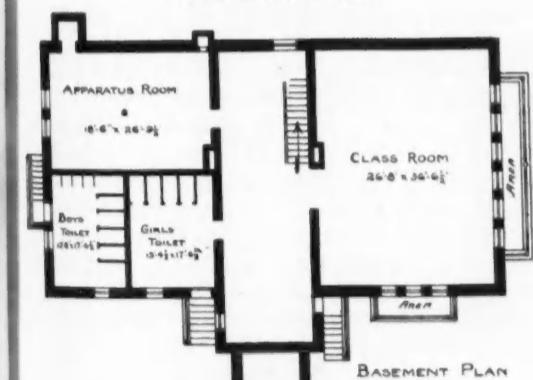
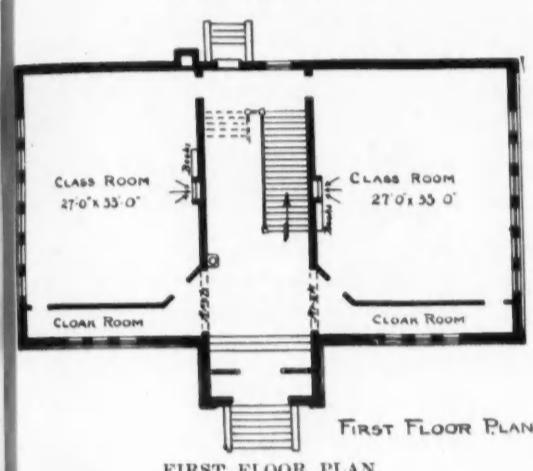


Floor Plans

NEW
5 Rooms.



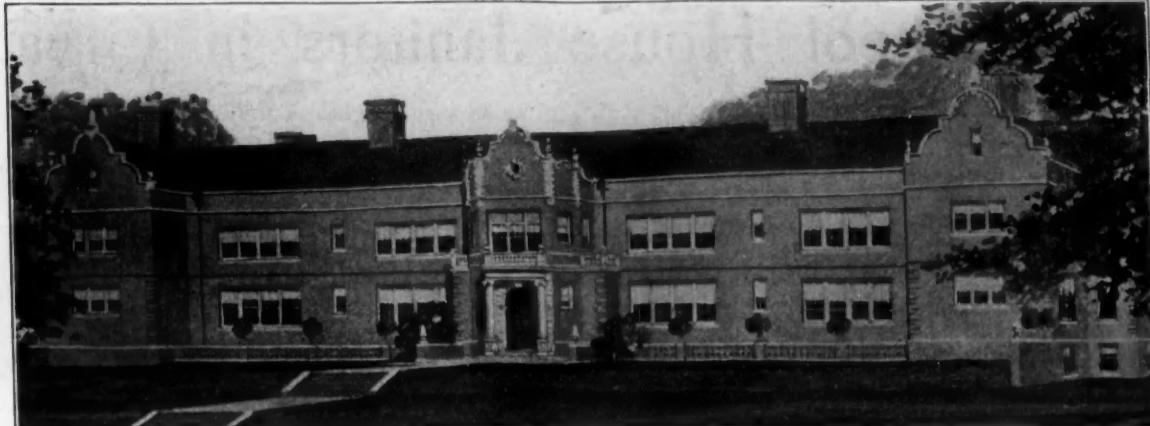
NEW SCHOOL, BROOKINGS, S. D.
14 Rooms, Office and Library. Cost, \$40,000.
By courtesy of Western Progress, Minneapolis, Minn.



Floor Plans, Centennial Annex High School, Pueblo, Colo. (see perspective, page 9).



NEW SCHOOL, CLAREMONT, N. H.
5 Rooms. Capacity, 200 pupils. Dimensions 50 by 75 Feet.



THE COTE BRILLIANTE SCHOOL, ST. LOUIS, MO.
Wm. B. Ittner, Architect for School Board.



NEW SCHOOL, NEW RICHARD, MINN.
Omeyer & Thori, Architects, St. Paul, Minn.



NEW NORMAL SCHOOL, MAYVILLE, N. D.
W. C. Abrant, Architect, Fargo, N. D.

RECENT MODERN SCHOOL ARCHITECTURE.

School House Janitors in Greater New York.

BY AN ASSISTANT SUPERINTENDENT OF SCHOOLS.

The care of school buildings has long been a leading topic in this city. The Municipal Civil Service Commission took it up early in 1901. At that time sworn statements were required of all the janitors to show how many helpers and cleaners each one employed and how much he paid for the service. The commission heard testimony that the school buildings were in a filthy condition, and that the system of payment for cleaning, by giving the janitor a lump sum, out of which he could pay his help, keeping the residue himself, was a perpetual encouragement to make money by neglecting work. It passed rules requiring janitors to select their helpers from a civil service list. Thereupon the Janitors' Association secured the introduction of a bill at Albany, providing that janitors' helpers should be exempted from civil service regulations. The bill passed both houses, but was vetoed by Governor Odell.

A test case on the Civil Service Commission's power was made by the Janitors' Association in the case of Janitor Doyle of Public School No. 118, Brooklyn. By order of the commission Doyle's name was stricken from the payroll because he was alleged to have employed helpers not on the civil service list. The Janitors' Association, through Doyle, secured a writ of mandamus from Justice Gaynor to restore Doyle to the payroll. The opinion handed down by the judges who heard the arguments on this mandamus decided that the commission could not cause the janitor's name to be erased from the payroll, but it did not pass upon the question whether or not the helpers must be selected from the civil service list. The mandamus, nevertheless, seemed to put a damper for the time on the efforts of the commission to reform the janitor trouble.

THE JANITOR SYSTEM DATES FROM THE LONG AGO.

The present scheme of giving the janitors the distribution of patronage is a time honored institution, dating back to the most prosperous days of the trustee system. It originated in the time when Manhattan and Brooklyn were aggregations of small villages. When a school trustee went out of office or was changed from one school to another, all the painters, carpenters, plumbers, steamfitters and various repairs knew there would be no more work for them in the old school. The new man doled out the jobs to his own following of contractors. The janitors had a good deal of the same kind of power. Douglas Stewart, in an article he wrote for one of the magazines six or seven years ago, gave instances of janitorial thrift in requiring fees from contractors, and of good cash business carried on by the "Two J's"—the janitor and the junkman—in metal tops of radiators, etc. When the reform laws abolished the district trustees and removed from ward politics the power to fill the teaching positions no sweeping changes were made in the condition of the janitor. He still receives his salary on a basis of floor and sidewalk space. He is still the judge as how many helpers he shall employ and who they shall be. If he has one of the large schools he receives from \$3,000 to \$5,000 a year. This makes him an important resident of the ward. He and the political leader can exchange favors. If the janitor could find positions for men who have appealed to the prominent citizen, the prominent citizen will be glad to render service by interceding with the committee on janitors in the school board, if any trouble ever comes up. The janitor lives in the district where the school is located. The principal lives where he pleases.

The janitor is at the building during longer

that the janitor sustains from spending upon labor goes into his own pocket.

Questioned by the Civil Service Commission, the inspector of buildings testifies that the board of education exercises no power over the janitors' helpers, as to number or fitness or remuneration. In regard to all the schools mentioned, he gives as his opinion that they are not properly cleaned and cannot be cleaned by the help employed.

Principal Downing testifies that the janitor does not keep the building clean. His janitor is shown by his own testimony to receive more than \$5,000 yearly salary, and after paying his wife and child, among other helpers, to have \$3,000 profit remaining.

When the present board of education began work in 1902 the common talk was that the committee on care of buildings was going to take this bull by the horns and yoke him to a workable sweeping machine. A commission on janitor service was going to modernize the system. New rules for janitor service have figures in rumors, but the janitors, as such, have not seen them yet. An officer of the building department of the school board has been assigned to the supervision of janitors, and has already electrified some parts of the service, but the men do not realize that it can be possible that any one can give them orders.

PLANS PROPOSED BY PRINCIPALS.

Principals are not unanimous in their opinions of the cleaning problem. Some think the inspectors of the building department who are now sent to the schools to report on heating apparatus, repairs needed and the nature of work done by contractors, ought to be required to report to the board of adherence of the janitor to his rules, or his departure therefrom.

They say that the rules are not observed. These statutes show careful work by some legislative head. They require sweeping of every room, stair and hall between 3 o'clock and 8 o'clock the next day; dusting all the furniture, window sills and woodwork; a monthly scrubbing (not mopping) of all the floors in entries, halls, stairs and schoolrooms; a dusting of the side walls, blinds and cornices every two months, oftener if necessary; at the same intervals, oftener if necessary, a cleaning of the windows.

They require the janitor to clean the sidewalk and to keep it clean; to allow no accumulation of refuse in the basement; to open the windows and thoroughly ventilate every classroom at the close of every school day, and again every morning before eight, to maintain the temperature of the rooms during sessions at 68 and 70 degrees; to run the ventilating apparatus to its full capacity; to visit every room, water closet, passage, stairway, yard, etc., before securing the exits so as to avoid locking children in; to distribute the mail; to care for the clocks; to report in writing damage to school property; to keep an inventory of school furniture, and to observe four or five pages more of other rules laid down for him.

Some principals suggest that the legislative end of the janitor service has been overdone and the executive part neglected. They intimate that if the same authorities that make the rules would attempt to oversee the janitors' observance of them, the situation would be clarified.

It is possible that some principals add unnecessary loads to the burdens already proposed for the guardians of the buildings. But all agree that the situation is bad and the problem urgent.

The Civil Service Commission is going over it again. It is serving summonses on principals,



hours. He knows the people. He is the most important man in the institution. If the janitor of a flat is *It*, the school janitor is *It*. This is especially true in Manhattan. When school boys see him coming they say to one another, "Look out, here comes the owner." In Brooklyn it is becoming the custom to apply the title "Doctor" to a schoolmaster; in Manhattan they save this for the janitor. In Brooklyn it is not uncommon for visitors to inquire for the principal; in Manhattan they ask for "the other man."

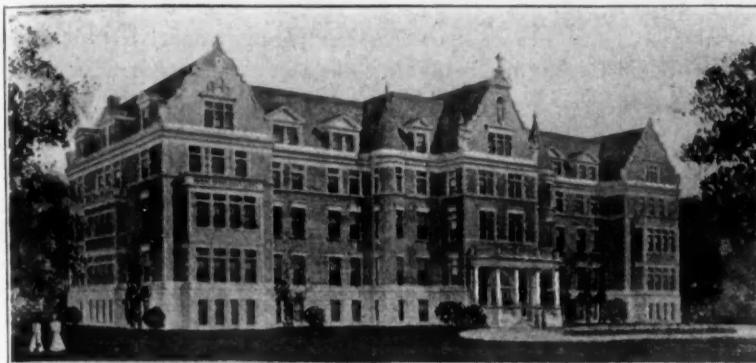
A new principal often tries to get the building cared for according to his own notions, but he soon finds the local standards of service so low and the authorities so indisposed to raise them that unless he is unusually vigorous and long-winded he gives it up and protests only in the case of gross neglect. The janitorial side is too strong for him. The association, with its rules, its agreements, its committees and its influence, is stronger than most single principles in the system.

At this writing the janitor of the Normal School is holding on to rooms that are in urgent demand for classes to relieve overcrowding, while the vapors from his cookery saturate the air so nearly to the dew point that an unexpected lowering of the temperature would precipitate upon the young misses a shower of onions and cabbage. Throughout the school system the feeling pervades that there is not power enough to require the janitor to do his work. Those who visit the schools say the rooms and hallways are dirty.

PROMISED REFORM OF JANITOR SERVICE.

The only man whose chief business it is to aim for a clean building, the janitor, has no positive and continued incentive before him for cleanliness. Railroad companies offer cash prizes for the best kept station, and have the awards made by a committee of station masters which is taken to all the houses of a division. Each one is educated thereby toward the standard reached by the prize winner. The scheme which the board of education maintains does not give a prize to the dirtiest, most poorly kept building, but it encourages every janitor to expend just as little as possible on cleaning, for every cent

(Continued on subsequent pages.)



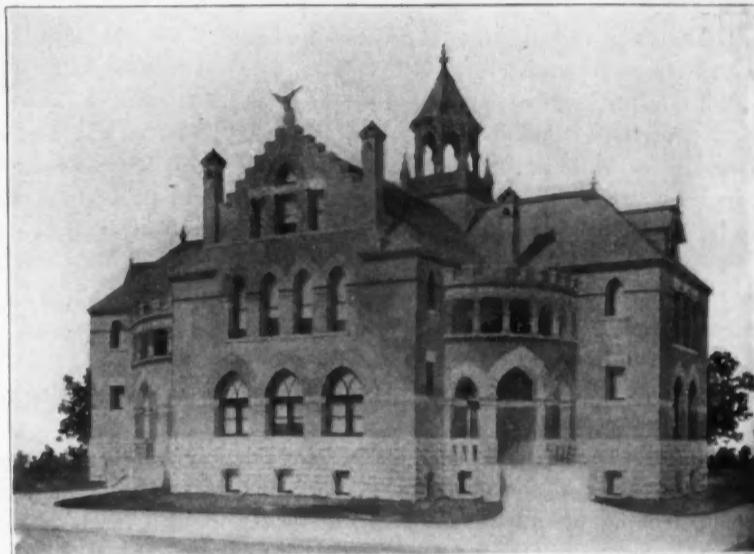
ADDITION, ST. MARY'S ACADEMY, NOTRE DAME, IND.
Egan & Prindeville, Architects, Chicago.



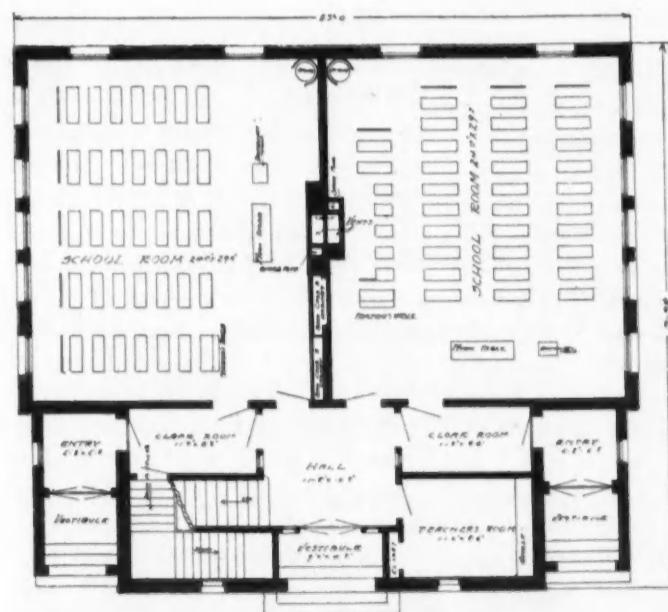
NEW HIGH SCHOOL, MARLIN, TEXAS.
Glenn Allen, Architect, Waco, Texas.



NEW SCHOOL, ST. JAMES, MO.
4 Rooms. Cost, \$5,000. H. H. Hohenschild, Architect, Rolla, Mo.



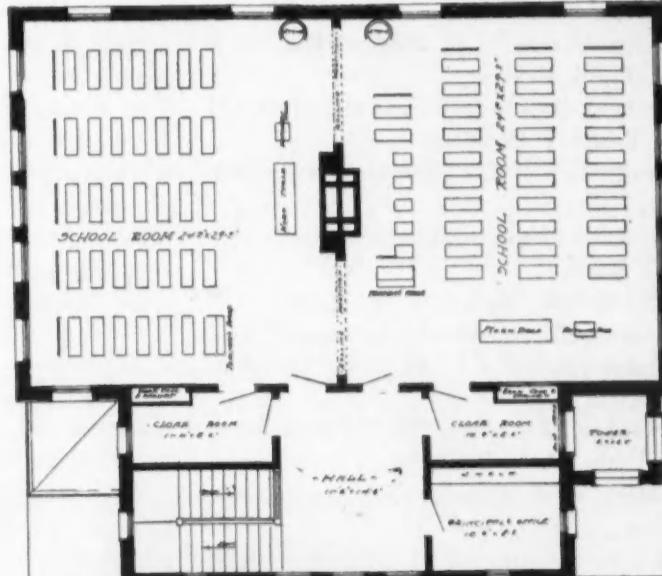
NEW SCHOOL, SWEETWATER, TEXAS.
Glenn Allen, Architect, Waco, Texas.



FOUR ROOM BRICK
SCHOOL BLDG. 6.
H. H. HOHENSHILD ARCHT.
ROLLA, MO.

FIRST FLOOR PLAN.

Floor Plans, New School, St. James, Mo. H. H. Hohenschild, Architect, Rolla, Mo.



FOUR ROOM BRICK
SCHOOL BLDG.
H. H. HOHENSHILD ARCHT.
ROLLA, MO.

SECOND FLOOR PLAN.

RECENT MODERN SCHOOL ARCHITECTURE.

School Board Journal

THE AMERICAN School Board Journal

DEVOTED TO

School Boards, School Officials and Teachers.

WM. GEO. BRUCE, - Editor and Publisher,
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THE INSECURITY OF SUPERINTENDENTS.

It has been held repeatedly in these columns, that there is no position in municipal official life more arduous and more vexatious than that of school Superintendent. No public official is weighed and measured more critically by school boards, the press, the public and the teaching corps, and no one connected with a school system is subjected to greater insecurity in his position.

This last statement is capable of an interesting analysis. A bird's-eye view over the larger cities throughout the country reveals a condition, which may be said to prevail, also, in the smaller cities and towns.

Taking the changes, which have been made in the leading cities during the past ten years only, we find that the school superintendent is a very insecure fixture. Many cities have had two or three, and even four superintendents during that period.

The following shows a list of cities, together with the names of the men who served them as superintendents during the past ten years:

Baltimore, Md.—H. A. Wise, J. H. Van Sickle.

Buffalo, N. Y.—James F. Crooker, Henry P. Emerson.

Chicago, Ill.—Albert G. Lane, Benjamin E. Andrews, Edwin G. Cooley.

Cincinnati, O.—W. H. Morton, Richard E. Boone, Frank B. Dyer.

Cleveland, O.—Andrew S. Draper, Lewis H. Jones, Edwin F. Moulton.

Detroit, Mich.—W. E. Robinson, W. C. Martindale.

Fall River, Mass.—William Connell, William C. Bates.

Grand Rapids, Mich.—W. W. Chalmers, F. R. Hathaway, W. H. Elson.

Indianapolis, Ind.—L. H. Lewis, David K. Goss, Calvin N. Kendall.

Milwaukee, Wis.—Wm. E. Anderson, Geo. W. Peckham, H. O. R. Siefert.

Newark, N. J.—Wm. N. Barringer, Chas. B. Gilbert, A. B. Poland.

New Haven, Conn.—F. H. Beede, Calvin N. Kendall, Virgil G. Curtis.

New York City—John Jasper, Wm. H. Maxwell.

Nashville, Tenn.—H. C. Weber, Z. H. Brown.

Omaha, Neb.—Frank A. Fitzpatrick, Albert P. Marble, Carroll G. Pearse.

Providence, R. I.—Horace S. Tarbell, Walter H. Small.

Portland, Ore.—I. W. Pratt, Frank Rigler.

Rochester, N. Y.—Chas. B. Gilbert, Edward B. Shaw, Clarence F. Carroll.

Salt Lake City, Utah.—J. H. Millspaugh, Frank B. Cooper, D. H. Christensen.

St. Paul, Minn.—Virgil G. Curtis, Irwin Leviston, J. A. Smith.

Scranton, Pa.—George Howell, G. W. Phillips.

St. Louis, Mo.—E. H. Long, F. Louis Soldan.

San Francisco, Cal.—M. Babcock, R. H. Webster, W. H. Langdon.

Toledo, O.—Harvey W. Compton, Almon A. McDonald, W. W. Chalmers.

Washington, D. C.—W. B. Powell, Alexander F. Stuart.

Worcester, Mass.—Albert P. Marble, Clarence F. Carroll, Homer P. Lewis.

The following superintendents have held their positions for more than ten years: Dr. Edward Brooks, Philadelphia; Edwin P. Seaver, Boston; Waren Easton, New Orleans; Chas. M. Jordan, Minneapolis; James M. Greenwood, Kansas City, Mo.; W. F. Slaton, Atlanta; Edward B. Neely, St. Joseph, Mo.; Newton C. Dougherty, Peoria, Ill.; A. B. Blodgett, Syracuse; Francis Cogswell, Cambridge, Mass.; Charles W. Cole, Albany; George W. Twitmeyer, Wilmington, Del.; A. K. Whitcomb, Lowell, Mass.; Wm. F. Fox, Richmond, Va.

The conclusions to be drawn from the above are not promising to the average professional life of the school superintendent. He is, unquestionably, living in an atmosphere of uncertainty, and is in constant dread of being asked to resign or summarily removed. On the whole the situation is not encouraging.

But, what is the cause and what the remedy? Either school superintendents, on the one hand, are incompetent, or else, on the other, school boards are unjust.

Both may be true. At least it may safely be assumed that a number of superintendents have been removed for good and sufficient cause. At the same time it cannot be denied that school boards have only too frequently been actuated by wrong motives in removing the educational expert from the school system.

Politics and ignorance still play an important part in the American school administrative labors. In the political squabbles, which enter into school boards, the educational interests must, necessarily, suffer. The superintendent is apt to get between the millstones of contending factions and is ground to death. The combined ignorance and viciousness of some school board members brings about the downfall of many efficient and progressive school men.

What are the means to be employed in order to secure greater permanency for the school superintendent? First of all, it seems to us, the average school superintendent requires a better equipment as such. He must secure a better understanding of his own position as schoolmaster and manager. He is, above all things, a man of affairs, rather than a pedagogue. He is an executive head, who must deal with men and affairs, rather than with psychological problems.

The successful college president of to-day is not a pedagogue in the strictest sense of the

term. He is a financier and a lecturer. He knows how to manage and give evidence at the same time of an interest in abstract educational problems. He employs men to perform the professional labors, while he manages the practical affairs.

The school superintendent of the medium and large cities must be practical above all things. Tact, judgment, energy and skill must be at his command. Knowing how to deal with school boards implies an ability to deal with teachers, and in this ability lies the secret of his success. The superintendent who wastes his substance in examining text-books and methods, or courses of study, has already lost the sense of proportion. All those labors have their time and place, but the moment a superintendent begins to devote an undue amount of time and labor to the professional ends, he isolates himself from the practical.

We cannot leave the subject here, without pointing out the fact that school boards require more information as to their own part in school administrative labors than do the superintendents. The bright and progressive business man, who sits in a school board, is apt to be imbued with a sense of justice and fairness. And yet, he may have a very warped notion as to his own relation to the professional factors. Sufficient time and thought is not always given to get an accurate estimate of a condition in order to outline a mode of procedure that will be just to the superintendent, and strictly in the interest of the schools.

We do not hesitate in saying that the average school board is in greater need of an education in school administrative labors than the average school superintendent. An appreciation of the administrative factors, and their relation to one another will obviate many difficulties and give the superintendent greater permanency in his position.

HOW TO BUILD SCHOOLHOUSES.

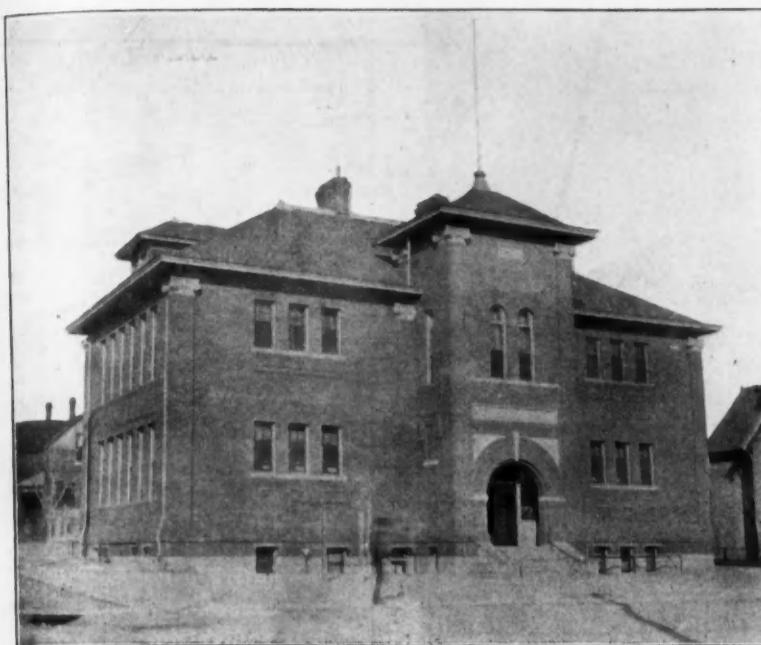
The Baltimore School Board has formulated and adopted a set of rules which shall apply in future to the construction of school buildings. They are essentially as follows:

That light should be admitted only from the left hand side of the pupils in classrooms not more than 24 feet wide. In case the rooms are wider, light to be admitted from both right and left hand sides. Windows in rear of pupils may be permitted for ventilating or architectural effect only, provided they are closed with shutters having fixed slats, and that the glass in such windows shall not be considered as forming any part of the light area required for the room.

That height of ceilings and top of windows from the floor be so regulated as to produce good lighting over the entire room, as it is known that effective lighting does not extend into a room more than one and a half times the height of the top of the window from the floor. This measurement must be taken from outside line of the wall in which are the windows.

That the glass area in each room shall ap-

(Continuation of this article can be found on page 13.)



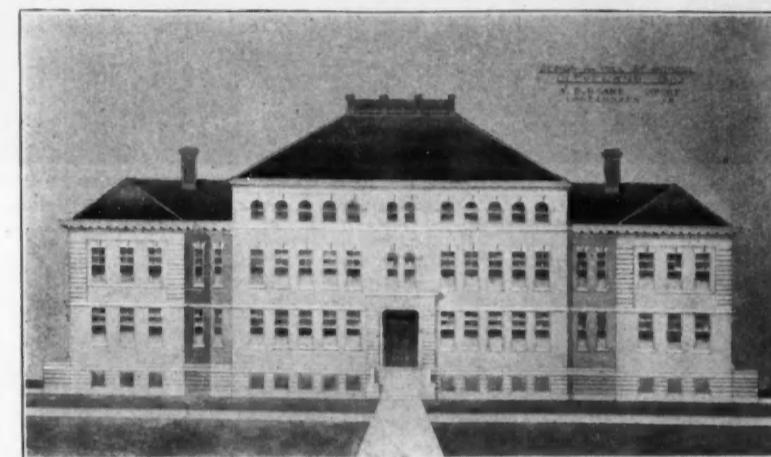
CENTENNIAL ANNEX TO HIGH SCHOOL, DISTRICT NO. 1, PUEBLO, COLO.
G. W. Roe, Architect. Cost, \$15,000. (Floor Plans of Page 5.)



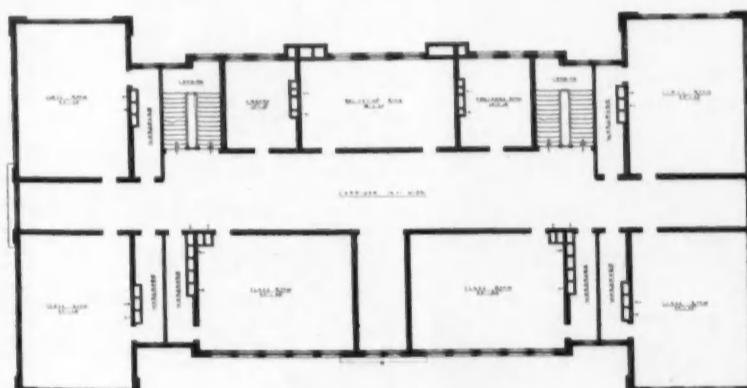
NEW SCHOOL, KILLEEN, TEXAS.
Glenn Allen, Architect, Waco, Texas.



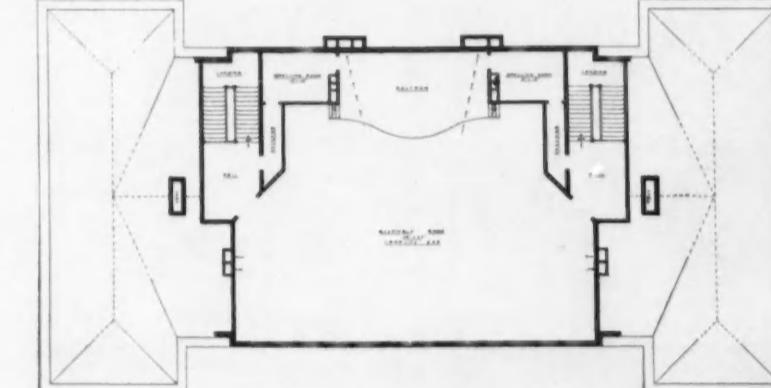
ST. JOSEPH'S COLLEGE, CINCINNATI, O.
A. O. von Herbulis, Architect, Washington, D. C.



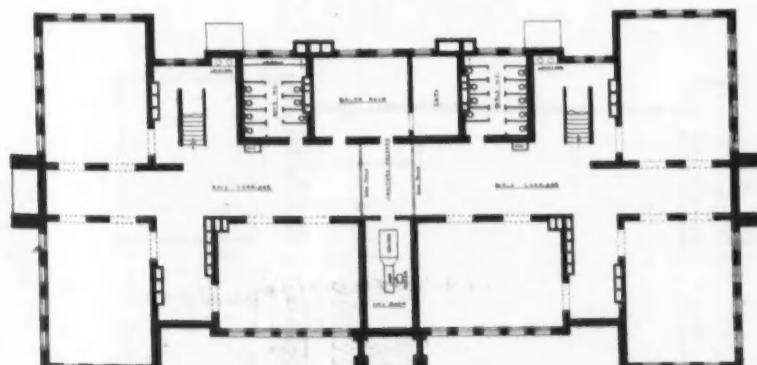
COMPETITIVE SCHOOL HOUSE DESIGN.
C. B. Roane, Architect, Portsmouth, Va.



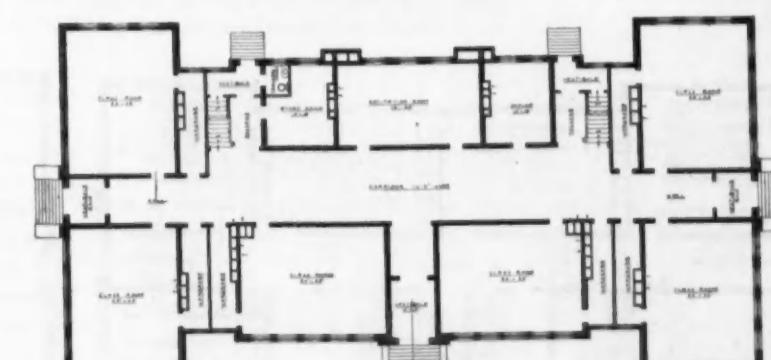
SECOND FLOOR PLAN.



THIRD FLOOR PLAN.



BASEMENT PLAN.



FIRST FLOOR PLAN.

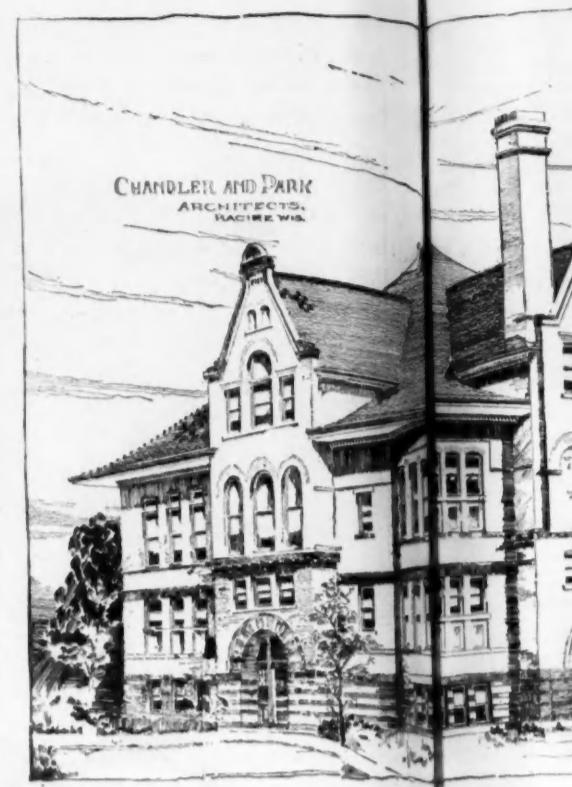
Competitive School House Perspective and Floor Plans. C. B. Roane, Architect, Portsmouth, Va.

RECENT MODERN SCHOOL HOUSE PLANS.



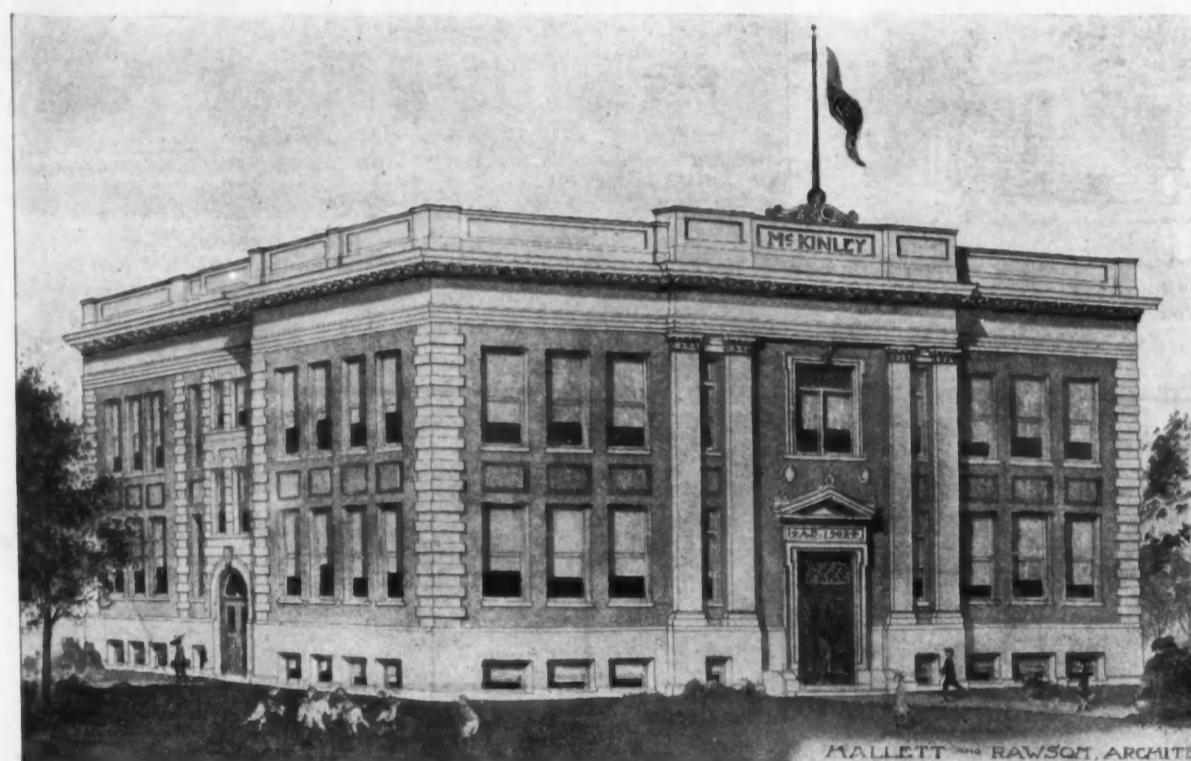
HALLETT & RAWSON, ARCHITECTS.

THE NEW CARY SCHOOL, DES MOINES, IOWA.
Hallett & Rawson, Architects, Des Moines, Ia.



CHANDLER AND PARK
ARCHITECTS,
RACINE, WIS.

NEUMOUR, WIS.
Cost, \$25,000. Architects, Racine.



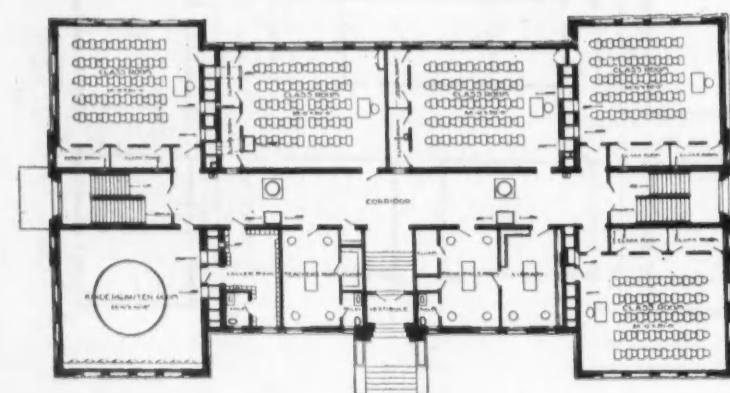
H.

THE NEW MCKINLEY SCHOOL, DES MOINES, IOWA.
Hallett & Rawson, Architects, Des Moines, Ia.



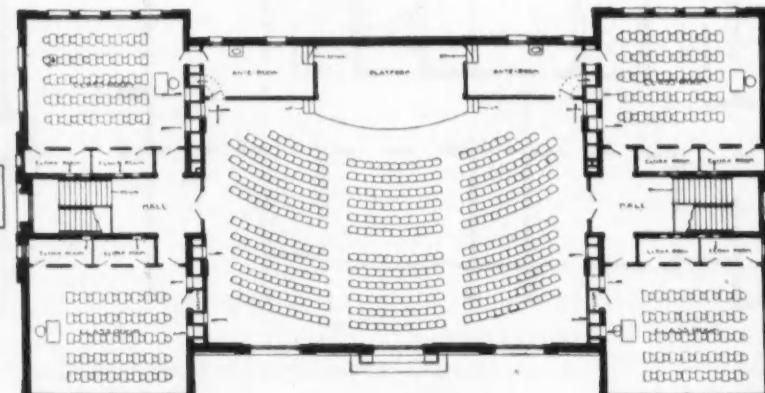
SCHOOL
CHANDLER AND PARK
ARCHITECTS,
RACINE, WISCONSIN.

A HOUSE.
Designed by Architects, Racine.



GROUND FLOOR PLAN.

Floor Plans, New Liberty School, Englewood, N. J. Davis & Shepard, Architects, New York City.



SECOND FLOOR PLAN.

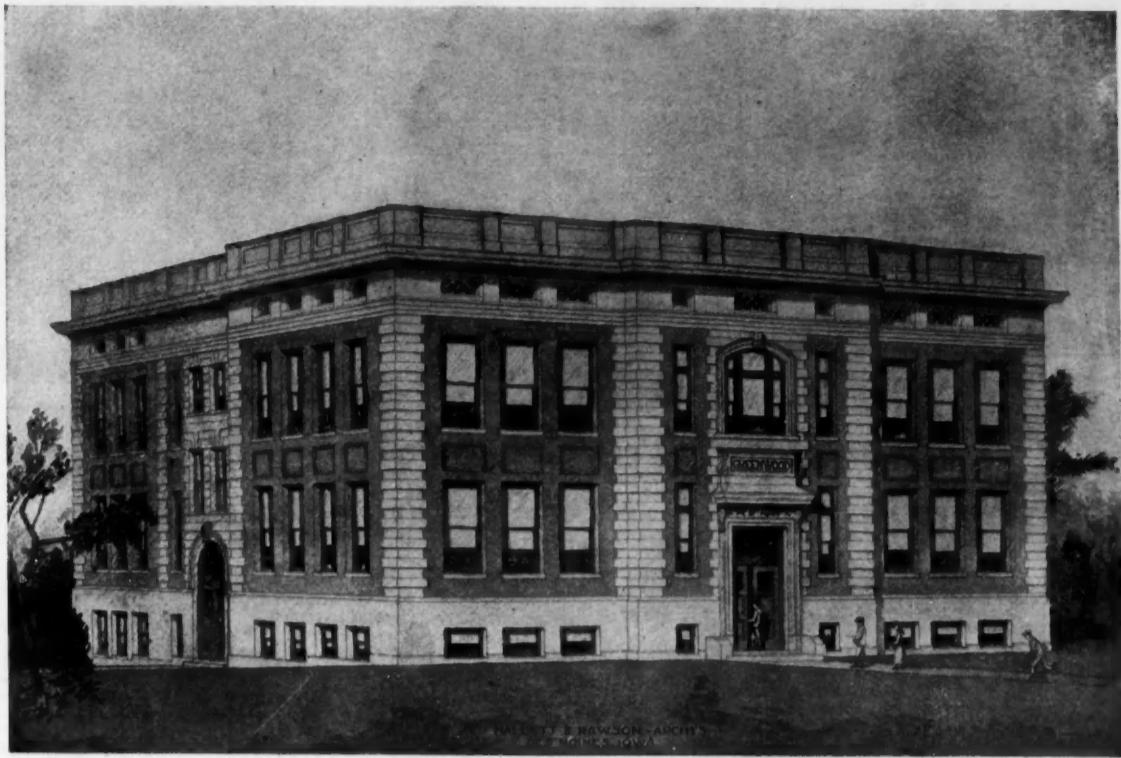
THE NEW CENTRE WRENCE, N.

RECENT MODERN BUILDINGS.

RECENT MODERN BUILDINGS.



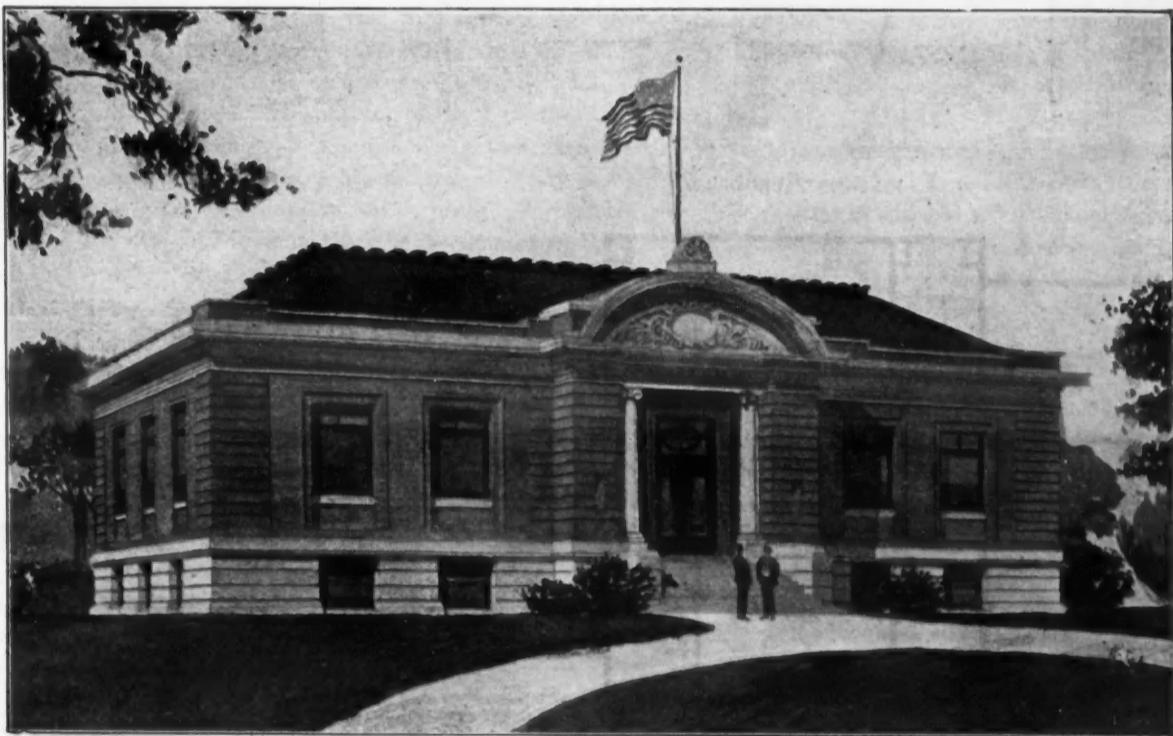
NEW HOURS, WIS.
Cost, \$25,000. Architects, Racine, Wis.



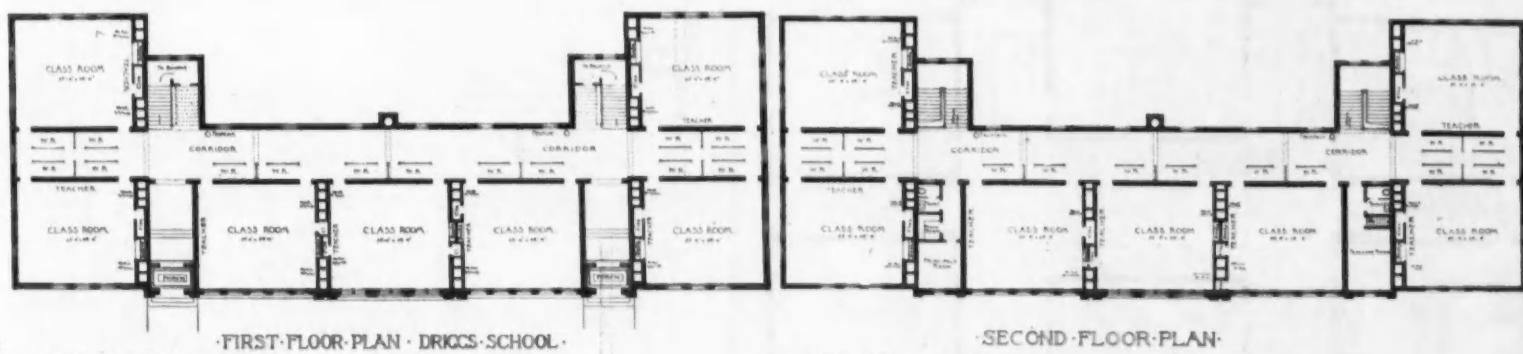
THE NEW GREENWOOD SCHOOL, DES MOINES, IOWA.
Hallett & Rawson, Architects, Des Moines, Ia.



A HOUSE.
Designed by Chapple, Racine, Wis.



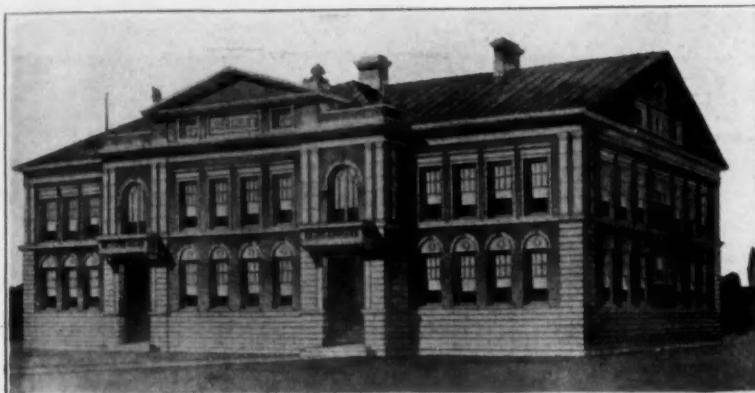
THE NEW CARNEGIE LIBRARY, STILLWATER, MINN.
Patton & Müller, Architects, Chicago, Ill.



NEW CENTRE, MASS.

ENT MOD. BUILDINGS.

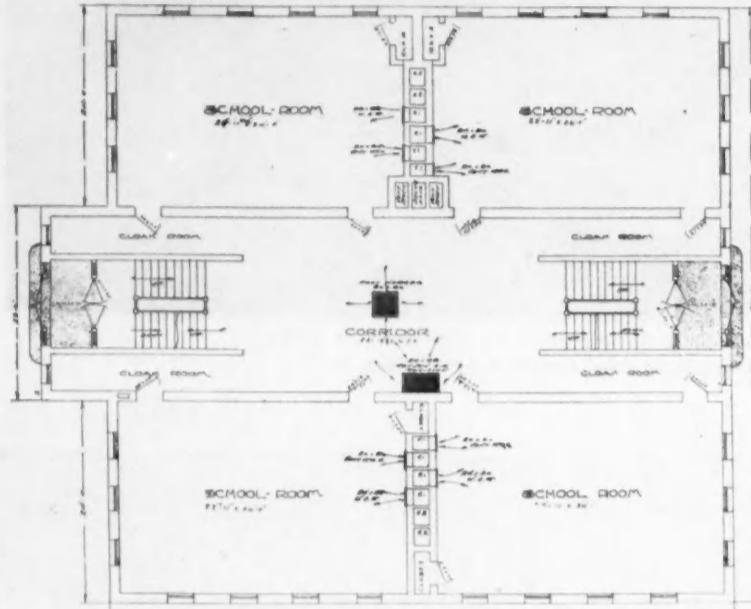
FLOOR PLANS, THE NEW DRIGGS SCHOOL, WATERBURY, CONN.



The New McKinley School; Oklahoma City, Okla. Williams & Saylor, Architects, Oklahoma City, Okla.



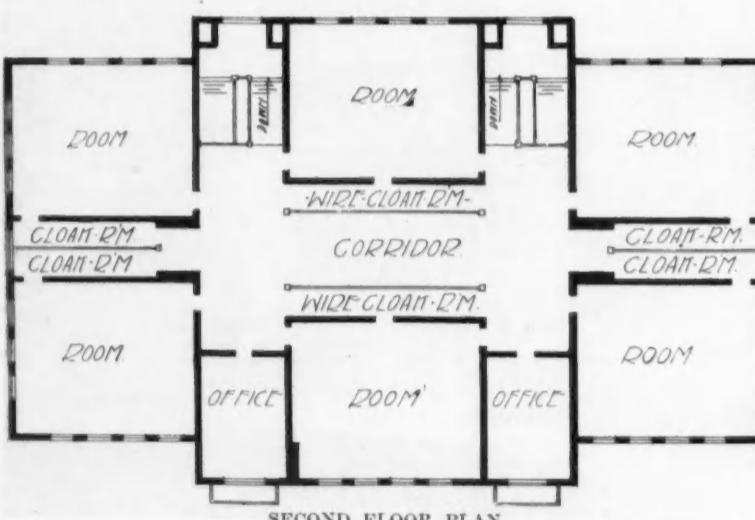
THE NEW ST. BASIL'S COLLEGE, WACO, TEXAS.
Glenn Allen, Architect, Waco, Texas.



PERSPECTIVE PLAN.



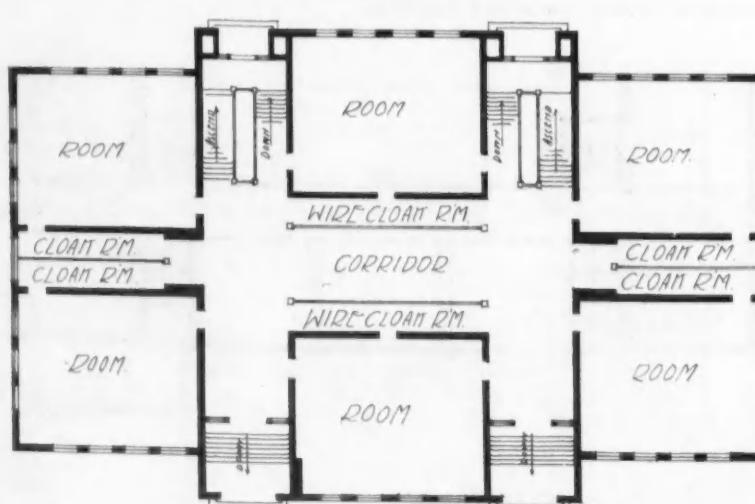
NORTH FRONT ELEVATION.



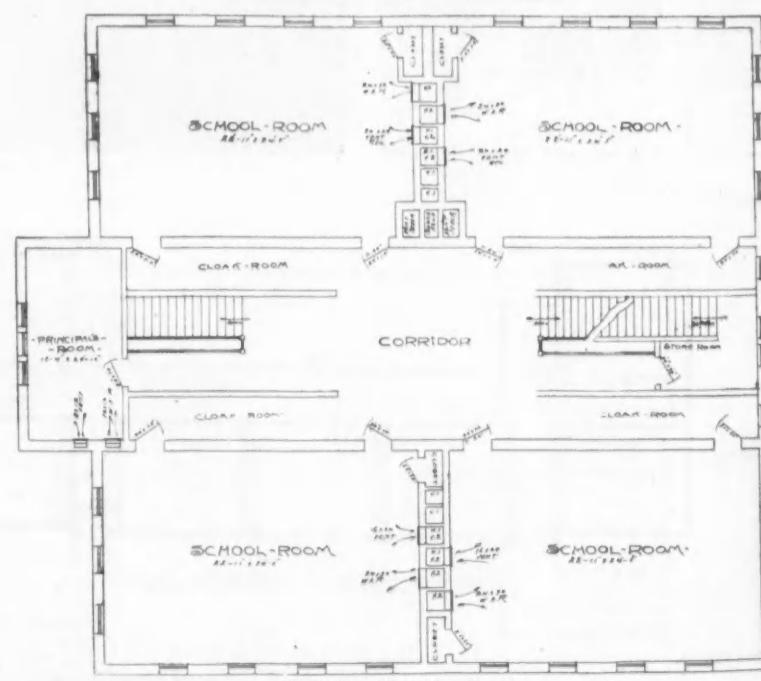
SECOND FLOOR PLAN.



EAST AND WEST ELEVATION.



Elevation and Floor Plans, New School, Iola, Kansas. James Roberts, Architect, Iola, Kansas.
RECENT MODERN SCHOOL ARCHITECTURE.



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The tendency in American colleges to study the slums.

proximate one-sixth of the floor area, or that from 300 to 350 square inches of glass shall be provided for each pupil; that each window shall not have more than four panes of glass, as multiplied crossbars obstruct the light and cast shadows. Square-headed windows are preferred, with sills three and one-half feet from the floor, and tops must not be more than six inches below the ceilings.

That the typical classroom shall measure 24 feet wide by 32 feet long, and that the ceilings shall not be less than 12 feet nor more than 14 feet high; that 15 feet of floor space and 210 cubic feet of air space shall be provided for each pupil. These requirements would necessitate the ceilings to be 14 feet high.

That the stairways shall be five feet wide, of strictly fireproof construction, having brick walls to separate the different runs, and that open handrails must not be permitted.

That all rooms, corridors and stairways should be wainscoted, not less than three and one-half feet high, with Portland cement; that a damp-proof course of slate should be built into the walls at about five inches above the ground.

THE PURCHASE OF SCHOOL DESKS.

The season of the year is at hand when school boards will provide for the letting of contracts for their year's supply of school furniture.

A number of cities, anticipating their wants, have already made their purchases for the fall



The Lion and the Lady in American School administration.

opening of schools. In a number of these cities the question of price, rather than quality, has received a considerable share of attention. The immediate cause for the discussion is the advance in prices made by the manufacturers.

An investigation of the subject reveals the fact that the advance is but slight as compared with the old prices, and as compared with the general advance in the cost of all other commodities.

Again, it is found that the increase is made by all reputable manufacturers in preference to the alternative of a reduction in the quality of the goods. The opinion of the manufacturer seems to be quite unanimous in that the history of the industry has not recorded any cases of unusual remuneration or profit. That failures and fires have been more prominent than perquisites or profits has been amply demonstrated.

With a more settled market and the demand for a better class of goods, a condition heartily welcomed by the men identified with the industry, there has, however, come the recent spread of unionism and high prices for raw material.

The problem which has confronted the manufacturer was either to reduce the quality of his goods or raise his prices, or else suffer a loss on every school desk sold.

One manufacturer, in verifying his statement, recently produced bills showing the former cost of iron, lumber, varnish, etc., and the present cost. These figures show an aver-



The new school superintendent-elect arrives everywhere.

age increase in the cost of material of over twenty-five per cent. over last year.

The demands of the labor unions have materially enhanced the cost of production. The further uncertainty as to the labor market has made yearly contracts, which provide for the future delivery of school furniture, somewhat risky. Here, of course, the school boards are safe, as the manufacturer must, necessarily, assume the entire risk.

Looking at the situation from the standpoint of the board of education, no fault can be found with the present prices, all things considered.

It would be strange, indeed, if the enormous jumps in the iron and lumber markets during the last few years did not effect school furniture, which employs these two great commodities. Nor can it be expected that this industry should escape the demands of organized labor.

One of the purposes of our system of popular education is to establish equity in the dealings between man and man. Hence, school boards demand nothing more than that the price of school desks shall be fixed so as to provide the proper compensation of labor, cover the cost of material, and insure a reasonable profit to the man or men whose capital, enterprise and labor are devoted to the industry.

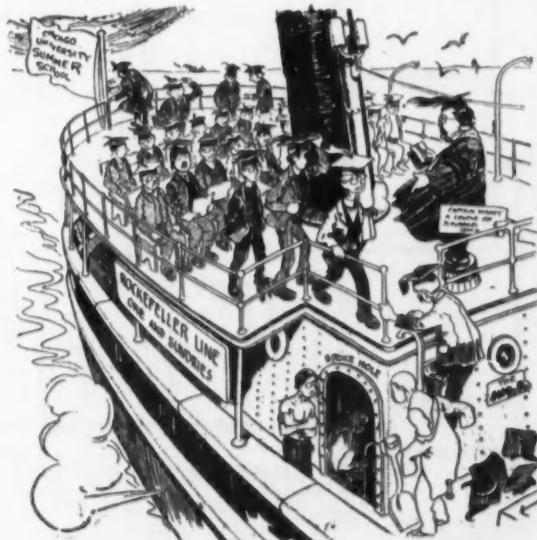
This demand most naturally implies that the goods shall be honest in material, durable in workmanship, hygienic in form and modern in style.



A diagram, the proportionate expenditures for the Chicago schools.

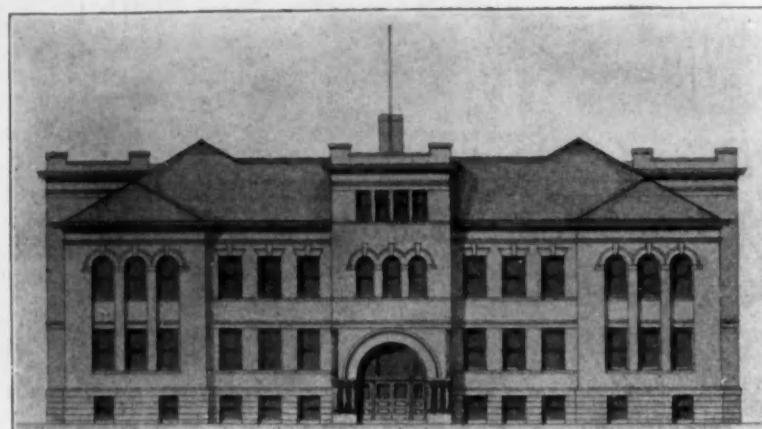


How a little Schoolmarm in Pawtucket, R. I., maintained discipline.

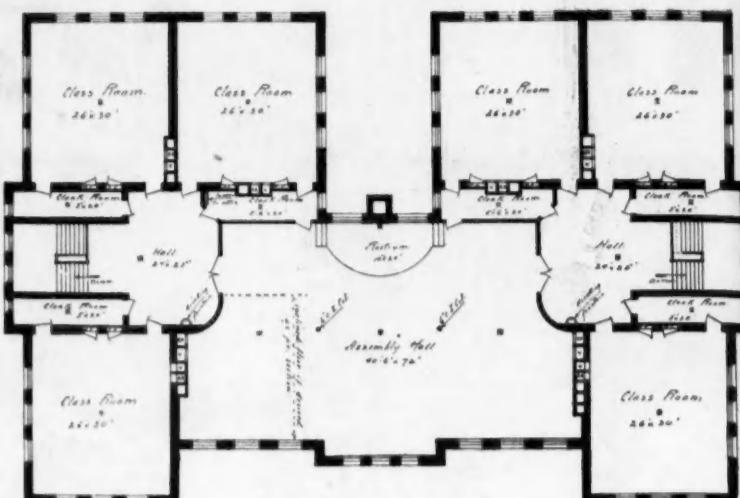


A suggestion for university summer schools.

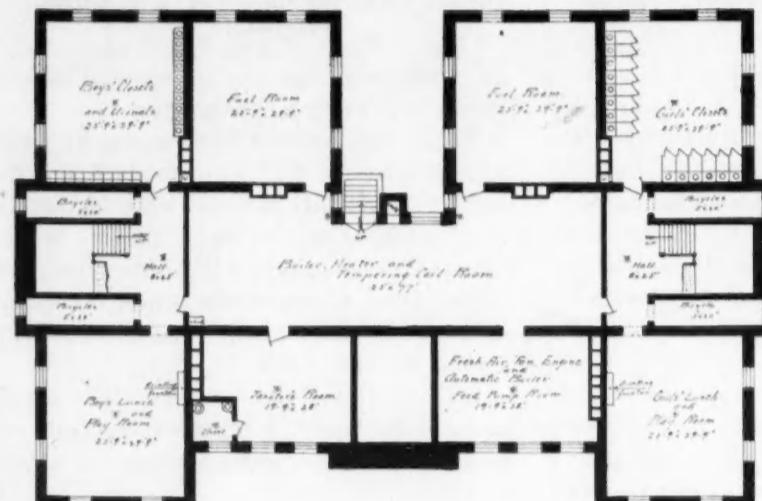
School Board Journal



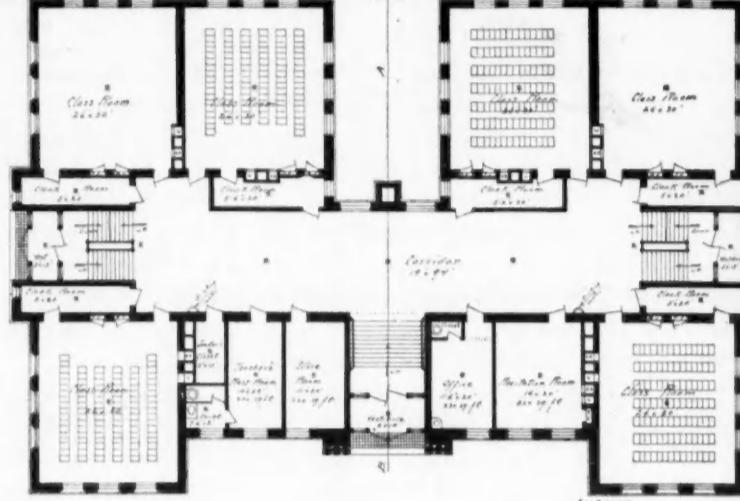
PERSPECTIVE PLAN.



SECOND FLOOR PLAN.



BASEMENT PLAN.



FIRST FLOOR PLAN.

DESIGN FOR THE MILL STREET SCHOOL, CLEVELAND, O. J. W. Ross, Architect, Davenport, Ia.

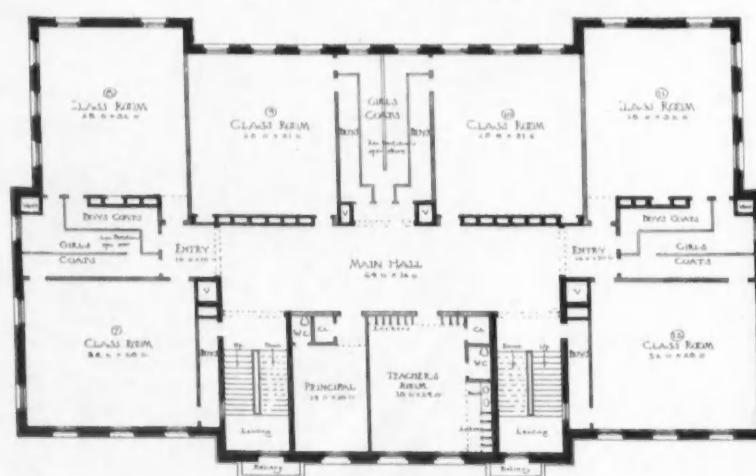


FRONT ELEVATION, FIFTH AVENUE SCHOOL, MILWAUKEE, WIS.

Frank Chouteau Brown, Architect, Boston, Mass.
(Floor Plans on Opposite Page.)

DESIGN FOR NEW CASS STREET SCHOOL, MILWAUKEE, WIS.

Frank Chouteau Brown, Architect, Boston, Mass.



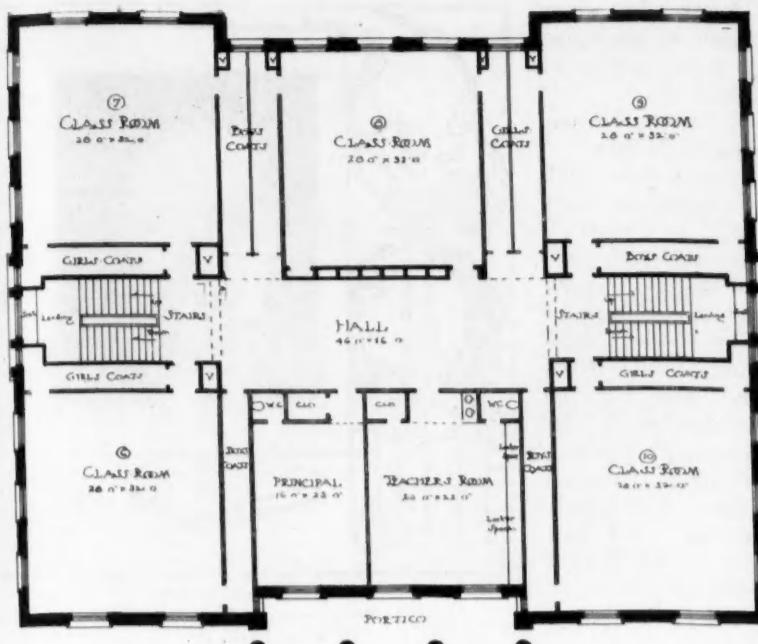
SECOND FLOOR PLAN.



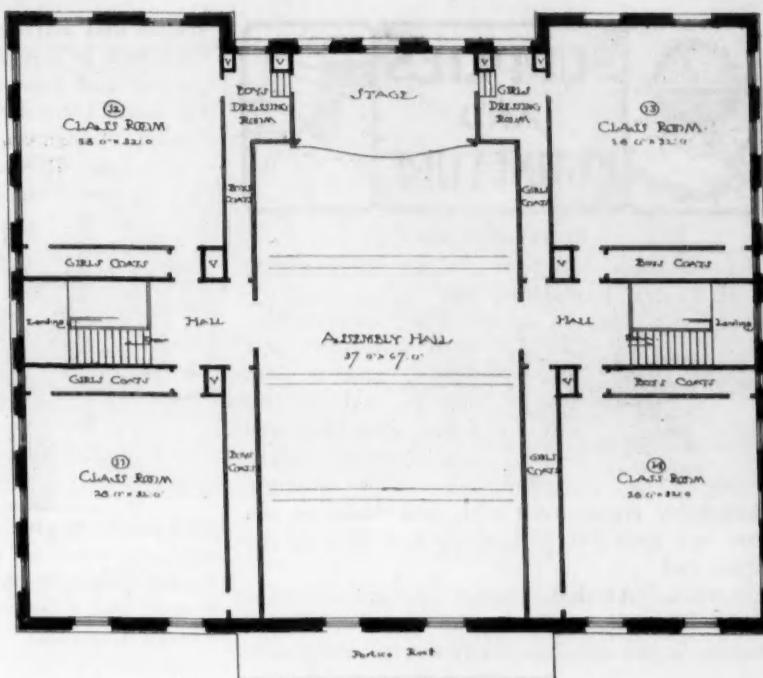
THIRD FLOOR PLAN.

FLOOR PLANS NEW CASS STREET SCHOOL, MILWAUKEE, WIS. F. C. Brown, Architect, Boston, Mass.

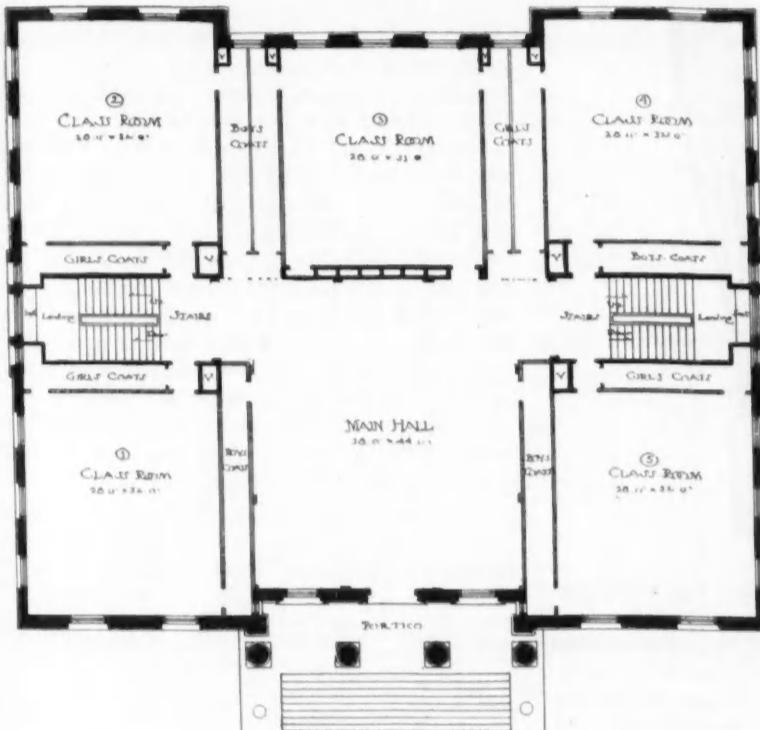
(More Floor Plans on Opposite Page.)



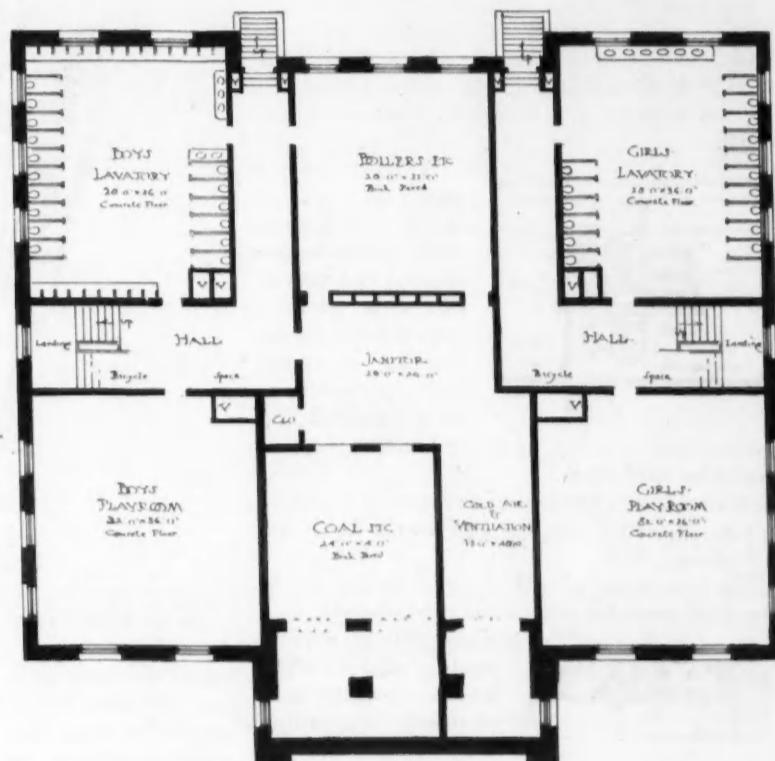
SECOND FLOOR PLAN.



THIRD FLOOR PLAN.

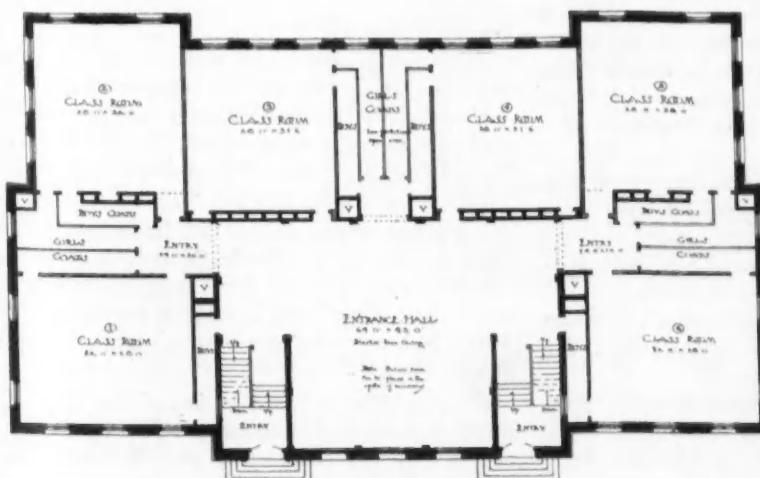


FIRST FLOOR PLAN.

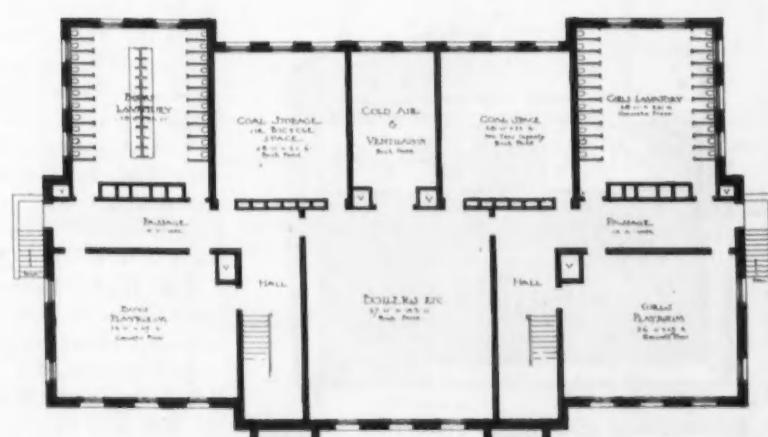


BASEMENT PLAN.

Floor Plans, Fifth Avenue School, Milwaukee, Wis. Frank Chouteau Brown, Architect, Boston. (See Perspective on Page 14.)



FIRST FLOOR PLAN.



BASEMENT PLAN.

Floor Plans, Cass Street School, Milwaukee, Wis. Frank Chouteau Brown, Architect, Boston. (See Perspective on Page 14.)

RECENT MODERN SCHOOL HOUSE PLANS.



Recent Patents.

SCHOOL DESK AND SEAT ATTACHMENT. James H. Foster, Tuscaloosa, Ala.

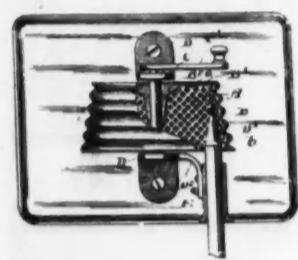


The combination with a vertical desk frame, and a desk top secured to said frame, of a brace and seat support consisting of a bar having a detachable engagement with said frame at one end and provided with a leg and foot at the other end.

INK-WELL. Alvah L. Carter, Chicago, Ill.

An ink-well comprising an external closure having a pen-opening, an inner ink receptacle rotatably mounted within the outer closure and having an upper wall provided with a pen-opening which by moving the said ink receptacle, may be brought into and out of registration with the pen-hole in the external closure.

PENCIL SHARPENER. Robert C. Uecke, Harvard, Ill.



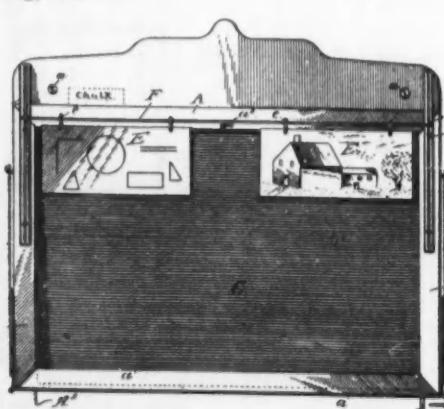
A pencil sharpener comprising an annular sheet metal shell which is perforated and provided with abrasive burs formed by the bending or punching outwardly of metal around the perforations therein, and a concentric support engaging said shell.

SCHOOL DESK FRAME AND ATTACHMENT THEREFOR. Jewett C. Gilson and David H. Rowe, Oakland, Cal.

The combination with a desk having a side standard provided with dovetailed grooves, of a plate fitting flatwise against said standard and conforming substantially in outline thereto, and having dovetailed projections on its inner face to interlock with said grooves, said plate having on its outer side a plurality of horizontal, transversely curved ledges cut away between their ends to form openings for the fingers.



EDUCATIONAL APPARATUS. Lee S. Pratt, Galesburg, Ill.

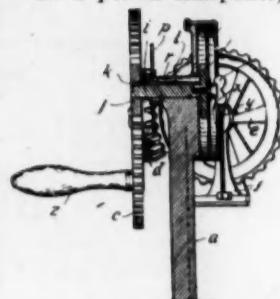


An improved educational appliance, comprising a vertical rectangular frame fixed to a wall and having a forwardly-projecting bottom ledge whose inner side is beveled or sloped as described and a removable panel adapted to fit within said

frame and having a blunt lower edge whose thickness is less than the width of the upper portion and greater than the lower portion of the angle formed by said ledge.

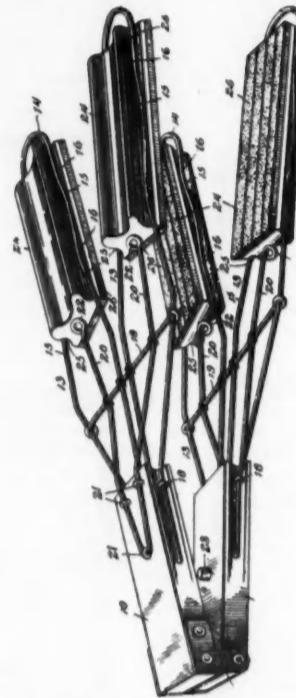
PENCIL SHARPENER. James H. Fassett, Nashua, and John E. Warren, Greenfield, N. H.

In a pencil sharpener, the combination with



a supporting frame and a driving mechanism mounted therein, of a rotatable member formed with a cam-surface, and driven by said driving mechanism; a cutter carrying shaft; a cutting device on said shaft; means interposed between said shaft and said rotatable member by which said shaft is automatically moved longitudinally in said frame; and a pencil-holding device.

ERASER CLEANER. Robert J. Riley, Zion City, Ill.



In an eraser cleaner, coacting oppositely arranged arms, and means for securing erasers upon the arms with their rubbing-faces in opposing relation, the combination with pivotally-associated arms movable toward and from each other, of means for securing erasers upon the arms with their rubbing-faces in opposing relation.

SCHOOL SUPPLIES AND EQUIPMENT.

The Bassett Automatic Shade Adjuster is specially designed for schoolroom purposes. It permits the raising and lowering of the whole curtain. Thus, the light may be admitted from the top or the bottom. This fixture is made by the F. H. Bassett Manufacturing Company, Waterbury, Conn.

The American School Furniture Company furnished the Duquesne, Pa., school with seats and desks.

Milwaukee. The school board has been supplied with a No. 7 Remington typewriter.

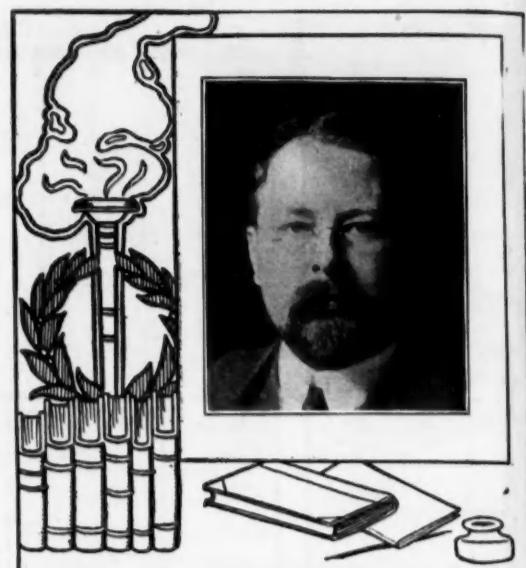
The W. C. Kern Co., of Chicago, manufactures banners, medals, caps, gowns, etc., for schools and colleges.

Jacksonville, Ill. A new encyclopedia, published by Dodd, Mead & Company of Chicago, Ill., has been purchased for the public schools.

Sacramento, Cal. The board has acquired two more No. 6 Remingtons.

Upland, Pa. Supplies, which have been heretofore furnished to the teachers from time to

time by the director, will now be received at a specified time, sufficient to last the full term.



FLETCHER B. GIBBS,
Pres. Board of Education,
Oak Park, Ill.

Philadelphia. The Commercial High School for Girls has been furnished with four more No. 6 Remington typewriters.

The "Holden System for Preserving Books" effects such economy and increased cleanliness in the schools—it is small wonder that it is universally so popular wherever adopted. It goes hand in hand with free text-books.

Racine, Wis. The Depere Tablet Company received the contract for furnishing writing tablets to the school board. These are to be sold at cost to the pupils.

The Montana State Normal School at Dillon has just placed an order for two McIntosh College Bench Lanterns with accessories for physical and scientific demonstration, and the University of Montana at Missoula has also placed an order for two of the same instruments.

The contract for the desks in the new addition of the Millville, Mass., school has been awarded to O. D. Case & Co. of Hartford, Conn.

The Southern California Academy of Science, Los Angeles, Cal., has just put in a McIntosh Imperial with Edison Universal Kinetoscope attachment.

Sioux Falls, S. D. A new Vose Piano has been purchased for the high school.

New York. During the month of April the board of education were furnished with nine Remington typewriters for the West Side High School; five for the Commercial High School, Brooklyn, and two for the Flushing School.

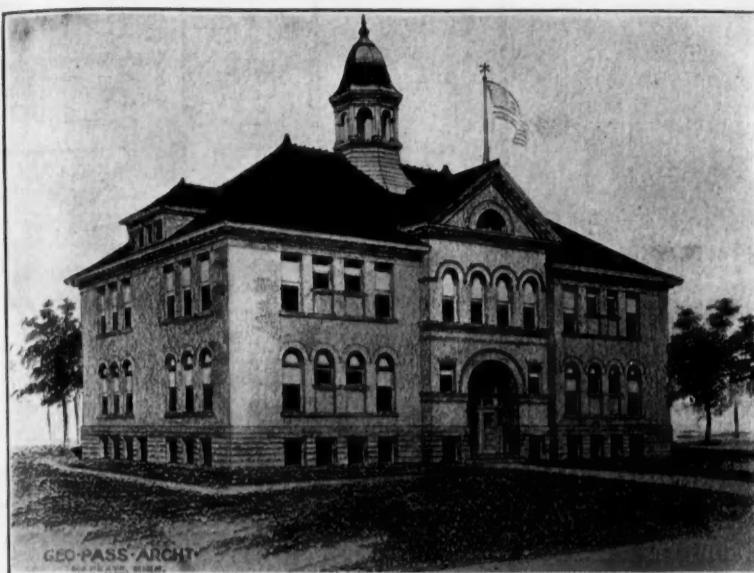
Supt. W. H. Clifford of the Council Bluffs, Ia., schools, has recently purchased two of the McIntosh Imperial College Bench Lanterns for use in their schools.

Friendship, Me. The new school has been equipped with the Caxton double seats, furnished by the Caxton Company of Chicago, Ill., and the Favorite single desk, by the Favorite School Desk Company of Cleveland, O.

One of the best conducted school systems in the United States is that of Brookline, Mass. Its superintendent of schools says this of the "Holden Book Covers." "Cheap, durable and convenient, they have become a necessity." It would be hard to express so much truth in fewer words.

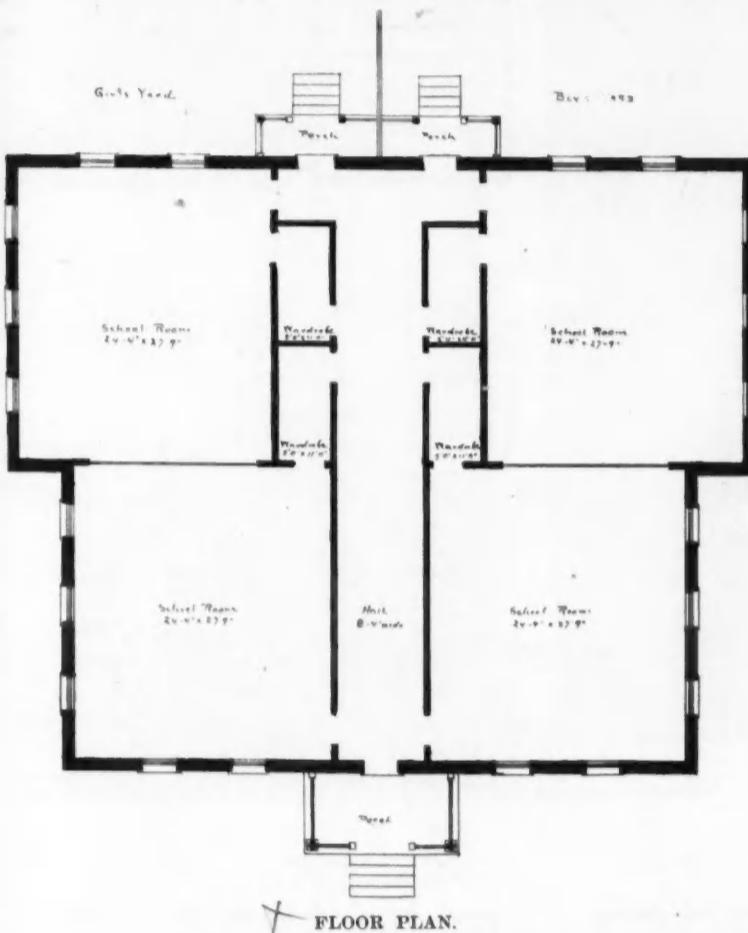
Chaplain Samuel D. Bawden of the State Industrial School, Rochester, N. Y., writes very enthusiastically concerning the McIntosh College Bench Lantern, which he has been using for several weeks.

Chicago, Ill. The school board has purchased 80 Remington typewriters.



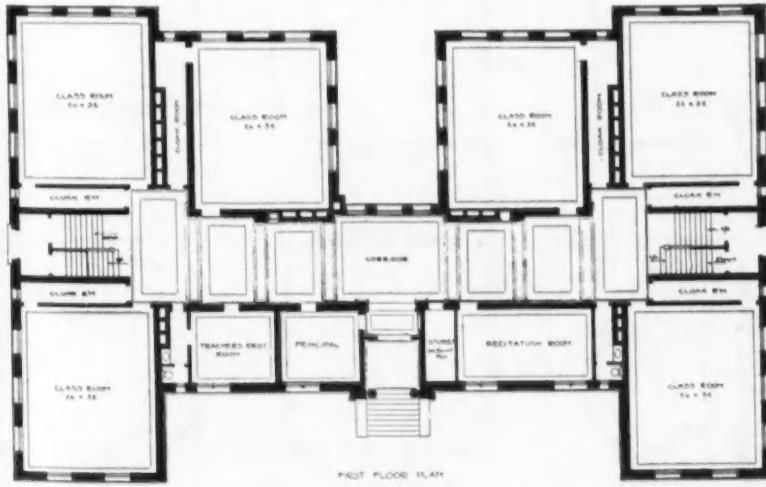
GEO-PASS-ARCHT.

NEW SCHOOL, RELLA, IOWA. COST, \$20,000.
George Pass, Architect, Mankato, Minn.



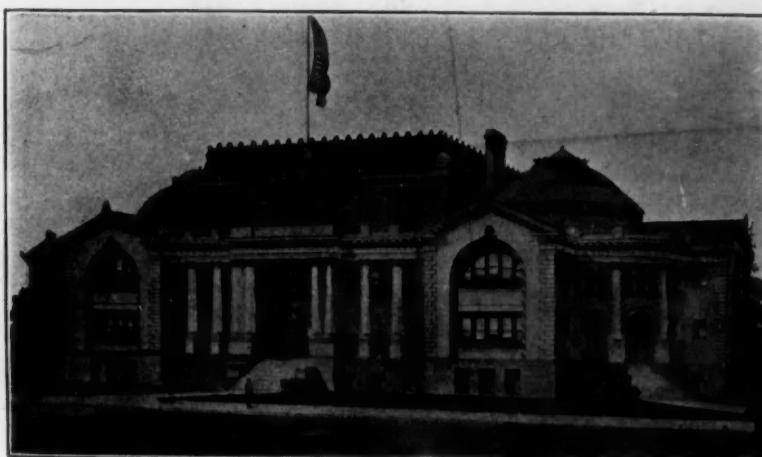
FLOOR PLAN.

Floor Plan and Perspective, New Ritenour School, St. Louis County, Mo. C. W. Pomeroy, Architect, St. Louis, Mo.



FIRST FLOOR PLAN.

Floor Plans, Model School. V. Emile Thebaud, Architect, Cleveland, O.
Front Elevation above.



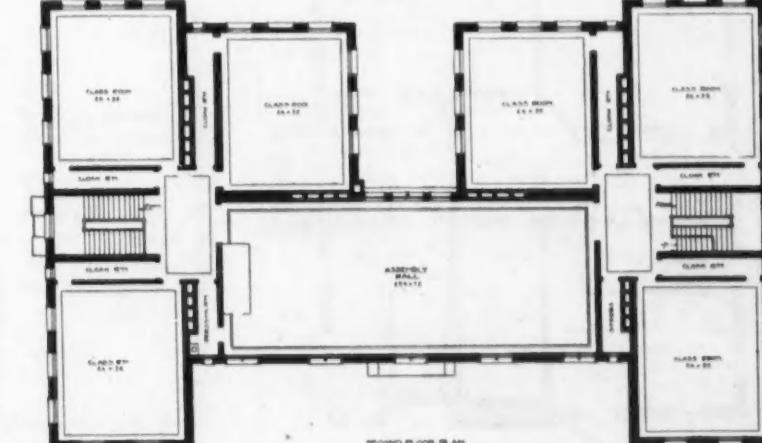
ACCEPTED DESIGN FOR HIGH SCHOOL, BEAUMONT, TEX.

Glenn Allen, Architect, Waco, Texas.

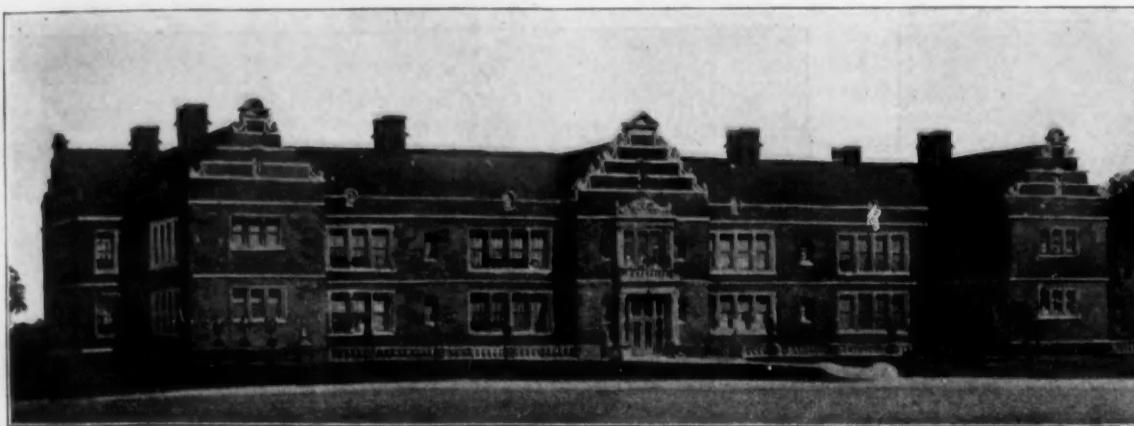


MODEL SCHOOL HOUSE DESIGN. COST, \$60,000.

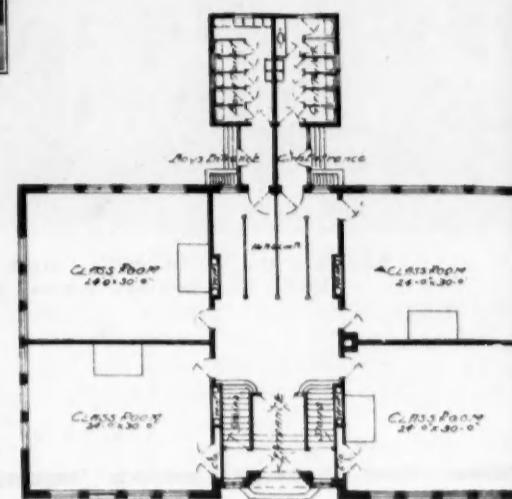
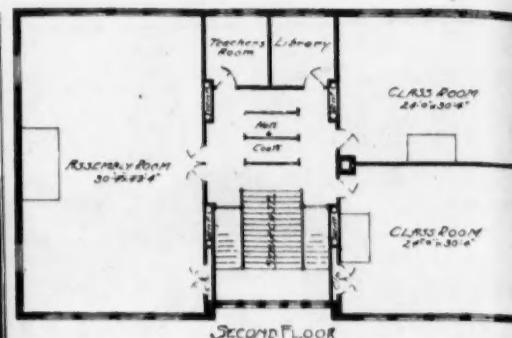
Floor Plans at bottom of page.
V. Emile Thebaud, Architect, Cleveland, O.



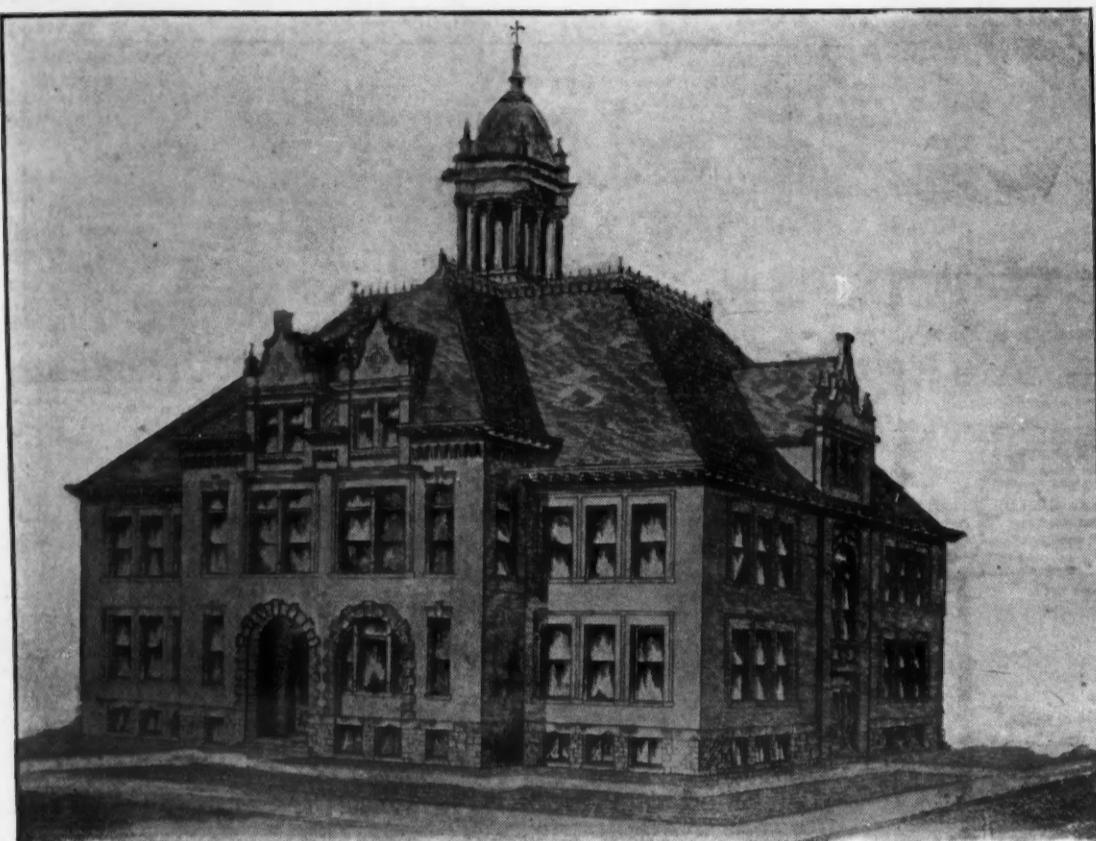
SECOND FLOOR PLAN.



THE NEW BLOW SCHOOL, ST. LOUIS, MO.
Wm. B. Ittner, Architect for the School Board.



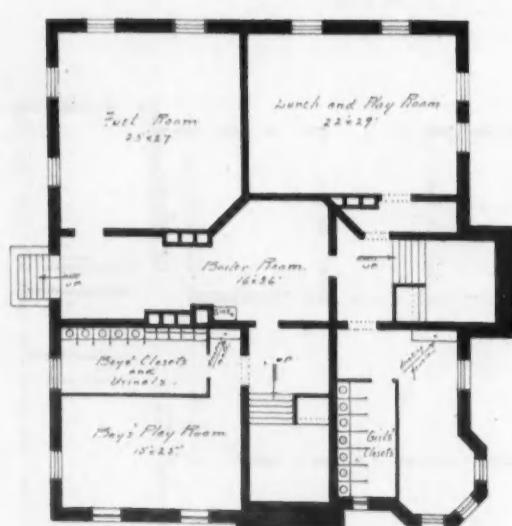
FIRST FLOOR
FLOOR PLANS, NEW PARK AVENUE SCHOOL,
Asheville, N. C.



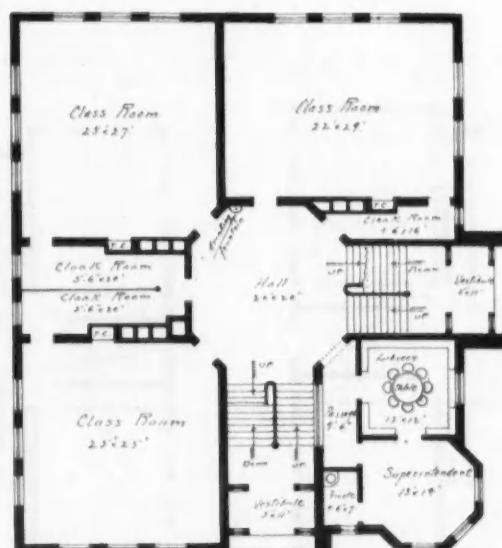
NEW HIGH SCHOOL, TWO HARBORS, MINN.
Palmer, Hall & Hunt, Architects. Cost, with site, \$34,000. 13 Rooms. Dimensions, 70 x 100.



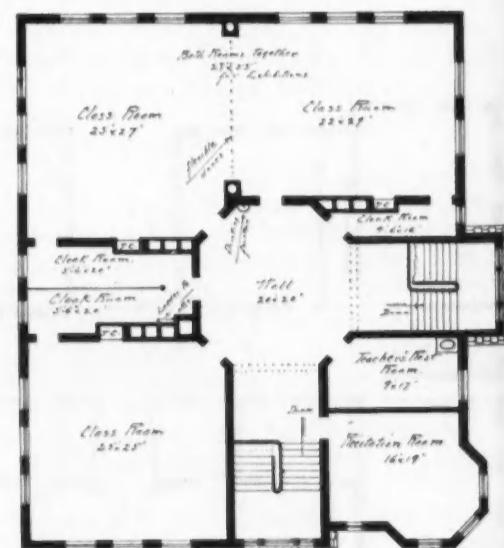
NEW SCHOOL, OLIN, IA.
J. W. Ross, Architect, Davenport, Ia.



BASEMENT PLAN.



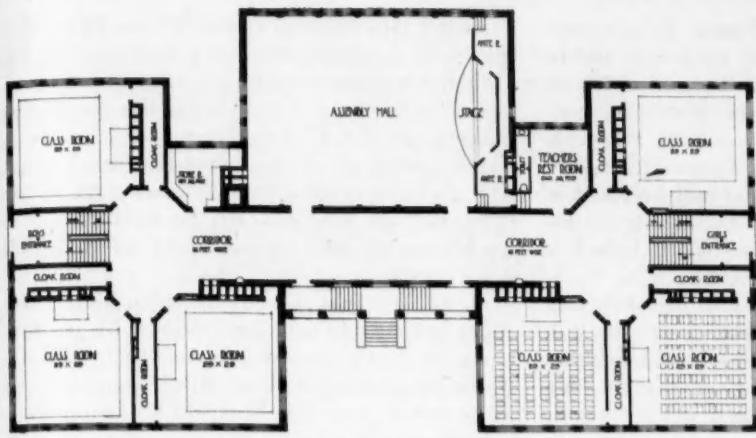
FIRST FLOOR PLAN.



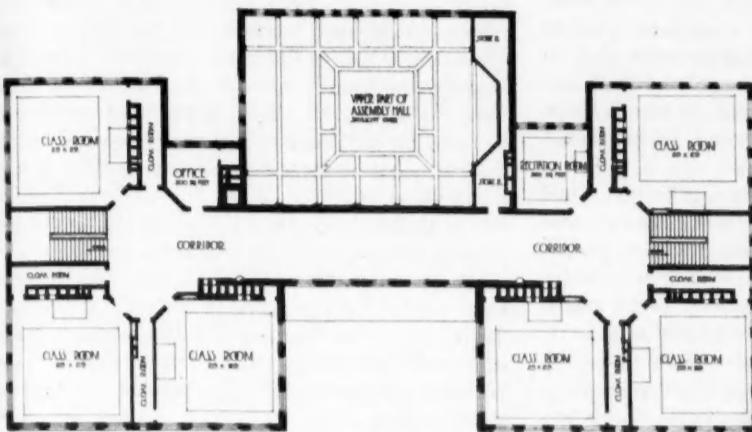
SECOND FLOOR PLAN.

Floor Plans, New School, Olin, Ia., J. W. Ross, Architect, Davenport, Ia.

RECENT MODERN SCHOOL ARCHITECTURE.



SECOND FLOOR PLAN.

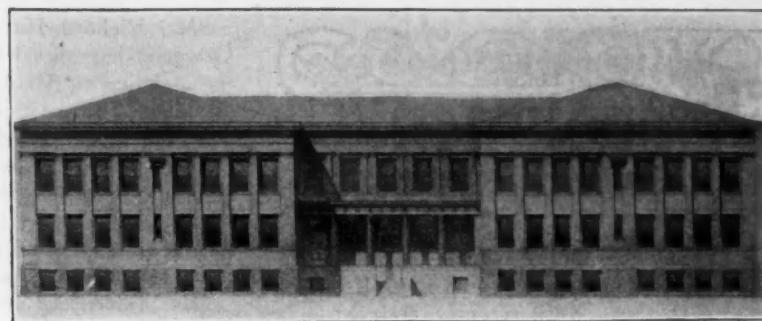


FIRST FLOOR PLAN.

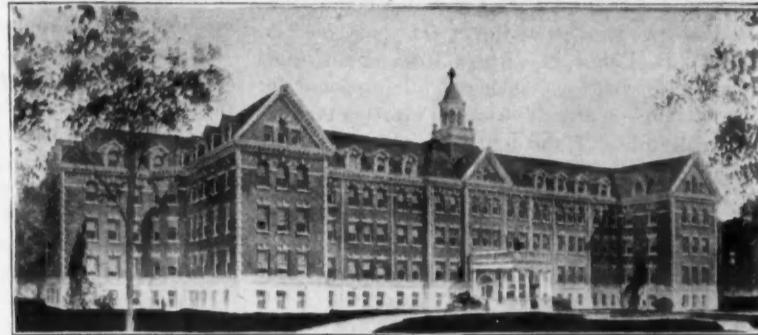


BASEMENT PLAN.

Floor Plans, Competitive School House Design. Knox & Elliot, Architects, Cleveland, O.



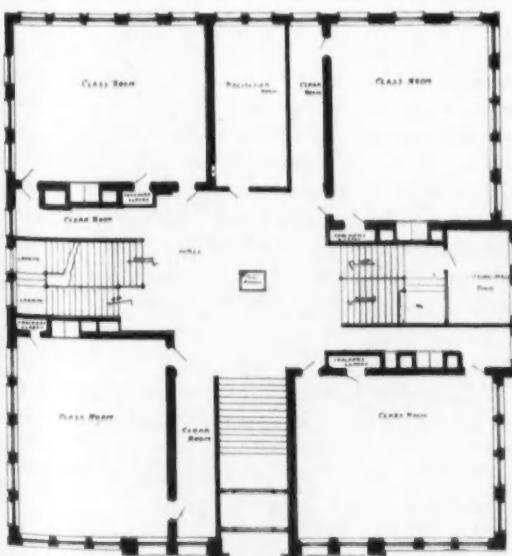
COMPETITIVE SCHOOL HOUSE DESIGN.
Knox & Elliot, Architects, Cleveland, O.



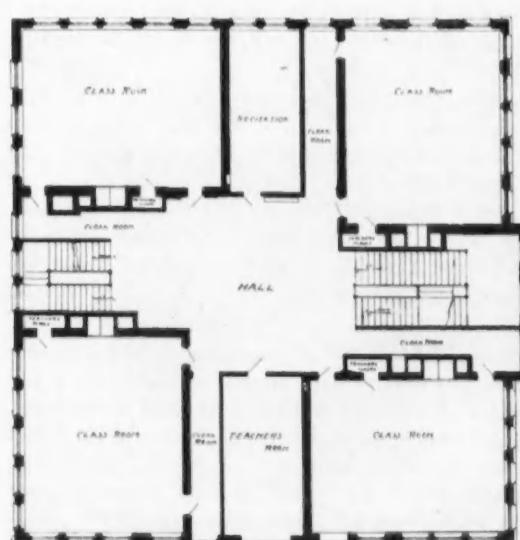
NEW SACRED HEART ACADEMY, LAKE FORREST, ILL.
Cost, \$250,000. Egan & Prindeville, Architects, Chicago.



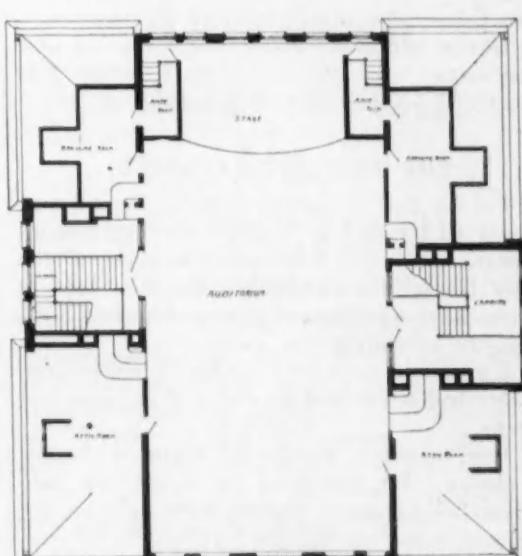
NEW SCHOOL, PEORIA, ILL.
Albert Kiefer, Architect, Peoria, Ill.



FIRST FLOOR PLAN.



SECOND FLOOR PLAN.



THIRD FLOOR PLAN.

Floor Plans, New School, Peoria, Ill. Albert Kiefer, Architect, Peoria, Ill.

RECENT MODERN SCHOOL ARCHITECTURE.

School Board Journal



APPLETON'S "WEDDING RING."

The western manager, L. F. Gates, of D. Appleton & Co., was, until recently, believed to be a confirmed bachelor. Nothing in the conduct and manner of the man, with a resonant voice the dignity of a bishop, ever revealed to his friends and an observing agency force that his heart had an extra throb for a fair lady.

But C. D. Baker, the firm's Iowa agent, one day got a tip from somewhere and imparted it to J. A. Harley, the Wisconsin representative. The two knights of the text-book soon hatched out a joke.

It seems that Manager Gates had been in the habit of making his announcements to his agents in the West regarding new books, etc., by sending a circular letter addressed "to the Fieldmen."

Harley and Baker framed and sent out a circular letter, purporting to emanate from the New York office, addressed "to the Fieldmen," stating that in the recent announcements an important publication had been omitted. It was further stated that the work was entitled "The Wedding Ring" and dealt almost wholly with the anatomy of the heart, and that agents could secure more detailed information from its Chicago manager.

Manager Gates soon began to receive letters from all quarters regarding the new work on anatomy, which bore the title of "The Wedding Ring." His sedate countenance soon broke into a quizzical one as he pored over the startling correspondence. He looked it over again and again, turned it upside down, walked around it once or twice, and then wondered what had struck the firm in dabbling with the heart strings of man without notifying the Chicago management.

He wired Manager Cram of New York for particulars on the new book and then proceeded to dictate a few letters to get at the "how about it."

And then, slowly but surely, something dawned upon his bachelor mind and his voice broke forth into language more vigorous than elegant. He dumped the correspondence into the waste basket, with the vigor of a foot-ballist, kicked the office cat, and telephoned the Western Union office to countermand his telegram.

Harley and Baker have been chuckling over the matter but have not had an opportunity to see Gates when he kicks things right and left.

THE TIDE NOT STEMMED.

For the past few years there has been a tendency on the part of bookmen to enter the insurance business. One after another of the very flower of bookmen left the book field to enter what was deemed a more lucrative calling, the insurance line.

Recently it appeared to us that a reverse tendency had set in and so stated it in these columns.

Now, however, Henry M. Ehlin, a former bookman, who represents the New York Life Insurance Company, throws more light on the subject by stating that the "epidemic" still continues and that bookmen are continually leaving the ranks to go into the insurance business.

"I want to challenge the statement that 'the tide has changed,'" said Mr. Ehlin recently to a representative of the School Board Journal.

"Mr. Richard Hardy of Prang Educational Company has joined the New York Life and is the assistant of Mr. G. W. Millen, inspector of agencies, with headquarters at Pittsburg, and now Mr. W. H. Ducker, formerly of Sibley & Ducker, has just resigned the Eastern management for Silver, Burdett & Co., and accepted a similar position to Mr. Lee B. Durstine, inspector of agencies of the New York Life Insurance Company, New York City.

"Mr. James A. Townsend has just left the position that Mr. Ducker is taking to take the management of the mercantile branch of the New York Life Insurance Company at 395 Broadway, New York City, and entered upon his new duties the first of the month.

"I have yet to hear directly or indirectly that any one of the bookmen that have joined our ranks have failed to make good in this business. Mr. Robert Foresman made a splendid success of this business during the few months that he was at it, having written over \$100,000 insurance. And, as for Mr. Eppstein, he would make a corker in this business, although he has never officially left the book business.

"You state upon 'reliable authority' that 'many of them regret having taken the step and would be glad to get back into the book field.' I will gratefully appreciate receiving any information confirming this statement, for I think that you owe to the good friends you now have in the insurance business, to give us fair play.

"It is now a well-known and accepted fact that the profession of life insurance stands today on a higher plane than formerly, and we are making it our business to raise that plane still higher.

"Finally, if there is any bookman or school man who is anxious to better his financial condition, I wish he would communicate with any one of the boys that have gone into the business and verify the facts of the case, and I am confident he will be thoroughly satisfied with the results."

Mr. A. Willard Morse, who has made his headquarters at Chicago, and who will represent the Morse Company of New York City, will act as assistant to Mr. L. E. Loveridge. The latter occupies the same position as formerly—the general representative of the Morse Company in the West.

An announcement is made that the American Book Company has opened an office at Cleveland, Ohio. C. E. Brown and F. H. Ralston are the representatives in charge.

William Wallace, who represented Silver, Burdett & Company in Illinois, has resigned owing to ill health. He will reside at Charleston, Ill.

S. E. Pond has accepted a position with Silver, Burdett & Company. He will cover Northern Minnesota, Northern Wisconsin and the Upper Peninsula of Michigan.

John Knox, of Silver, Burdett & Company, has been transferred from the Chicago office to the New York, and made assistant treasurer and office manager.

W. H. Ducker has resigned his position with Silver, Burdett & Company to go into the insurance business. Mr. Ducker entered the book field as an agent for Leach, Shewell & Sanborn about ten years ago. Later he went into the publishing business with C. A. Sibley, under the firm name of Sibley & Ducker. About a year ago he severed his connection with Mr. Sibley and accepted a position in the New York office of Silver, Burdett & Company.

Dr. George A. Bacon, of Allyn & Bacon, will spend the summer in Europe. He is accompanied by his wife and daughter.

Ernest Grevereus, formerly of the Ryan high school, at Appleton, Wis., now represents Henry Holt & Company in Minnesota.

Mr. V. L. Huhy has accepted the position as Indiana agent for Scott, Foresman & Company. He is a graduate of the Johns Hopkins University, and served for a time as teacher at Gibson City, Ill. He succeeds Mr. H. G. Butler, who has become the western manager for Henry Holt & Company.

W. C. Warfield, who represented Rand, McNally in the Ohio field, has resigned his position to accept the management of the St. Louis office of the International Mercantile Agency. While we regret to lose Mr. Warfield from the scene of bookmen, we trust he will meet with abundant success in his new calling.

Mr. Amasa Walker, who has resigned his position as New England manager for the Appletons to become manager of the Educational Department of Longmans, Green & Company, began school-book work for the Harpers in New York in 1894. In 1897 he was sent to Boston to open their branch office, and remained at its head until the Harper books were sold, prior to the failure of 1899. Then for a short time he was with D. C. Heath & Company, but resigned to open the Boston office for the Appletons.

Mr. Walker is a nephew of the late General Francis A. Walker, political economist, man of affairs and president of the Massachusetts Institute of Technology, and a grandson of Amasa Walker, widely known in his day as a political economist.

The Holden Patent Book Cover Company, Springfield, Mass., are again obliged for the twelfth year to increase their facilities for manufacturing. During all the past twelve years each has shown a great growth over the former until now the demand for the "Holden Book Cover" requires an enormous output; 1903 demand so far exceeds same period of 1902.

MEAL TIME CONSCIENCE.

What Do the Children Drink?

There are times when mother or father feeds the youngsters something that they know children should not have. Perhaps it is some rich dessert, but more often it is tea or coffee. Some compromise by putting in so much hot water that there is not much tea or coffee left, but even that little is pretty certain to do harm. It leads to bigger doses. Then come the coffee ills.

It is better to have some delicious, hot, food drink that you can take yourself and feed to your children, conscious that it will help and strengthen and never hurt them. A lady of Oneida, N. Y., says: "I used coffee many years in spite of the conviction that it injured my nervous system and produced my nervous headaches. While visiting a friend I was served with Postum, but it was not well made, still I determined to get a package and try it myself and after following direction carefully the result was all that could be desired; a delicious, finely flavored, richly colored beverage. Since I quit coffee Postum has worked wonders for me."

"My husband, who always suffered from kidney trouble when drinking coffee, quit the coffee and took up Postum with me and since drinking Postum he has felt stronger and better, with no indication of kidney trouble."

"You may be sure I find it a great comfort to have a warm drink at meals that I can give my children with a clear conscience that it will help them and not hurt them as coffee or tea would." Name furnished by Postum Co., Battle Creek, Mich.

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THE EVOLUTION OF A SCHOOL DESK.

Once upon a time—and that time is not so very distant—the schoolboy, with his “shining morning face,” was not to be blamed for “creeping, like snail, unwillingly to school,” for he had to sit on a slab puncheon, bending over his slate and book, which he held on his lap, while his feet dangled above the floor, or, if he happened to be a little taller than usual, his knees were stuck up under his chin. Those were the good old days when the devout puritan of New England, who came to the new world in search of religious freedom, burned at the stake those of their number who were accused of witchcraft. Those were the good old days when the family, clad in homespun, went to church in a lumber wagon, with wooden wheels, and drawn by oxen.

But the world moves on and men become so enlightened as to concede, reluctantly, that there may possibly be some better way than the old way; and in the course of a century, some brilliant mind suggested the idea that a school seat should be made of two planks—one to sit on and one to support the back of the pupil. This was a great improvement and a great step in the right direction, and in time the new-fangled two-plank desks came into general use.

Then, with the advent of steamboats and railroads, came the school desk with a folding seat. It cost a little more than the old-style seat, and for that reason its introduction was opposed by many school officers who took the position that as the old-style seat had been good enough for them it was good enough for their children, and that “seats don’t have nothin’ to do with book-larnin’, nohow.”

But, not satisfied with the improvements that had been made in school desks, some pesky inventor brought out a freak of a school desk of which the back and seat were curved to conform to the shape of the human body. Of course this new idea didn’t “take” with country school boards, for what is the use of considering the comfort of school children?

Up to this time school desks were made double, that is to say, they were made to accommodate two pupils. From the standpoint of economy this was all right, but some educator, who was foolish enough to think that no expense should be spared to seat pupils comfortably and properly advanced the idea that each pupil should have a school desk to himself, claiming that when a pupil sits alone he is less liable to whisper and “cut up,” and is more likely to attend to his studies. This idea found little favor with school boards, as it doubled the expense of



IDEAL CHAIR DESK.

Manufactured by
American School Furniture Company,
New York and Chicago.

seating a schoolhouse, but in time it was generally adopted, so that the old-style double desk was used only in remote country districts where the funds were limited or where the school officers were exceptionally penurious.

Next, and to add still more to the woes of economical school boards, some one sprung the absurd idea that instead of making the *pupil fit the desk*, the desk should be made to *fit the pupil*, or, in other words, that a school desk should be *adjustable*. This, too, added to the cost of the desk, but of late years up-to-date school boards are unanimous in the opinion that the best desk is an individual desk, that is adjustable, with a chair that is also adjustable; and thanks to the enterprise of the manufacturers, such a desk has at last been perfected and placed on the market. It is called the *Ideal Chair Desk*, and it is truly the ideal of all that could be desired in a modern school desk.

This desk combines all of the improvements that have been made in school furniture during the past century; it is comfortable, durable, easily adjusted, and is altogether a thing of beauty, and the only wonder is that it can be produced for the price at which it is being sold.

Chair desks have long been in use throughout New England and the East, and have already found their way into some of the large cities of the West. They commend themselves to all intelligent school boards when brought to their attention, and as the West is never slow to adopt anything that has been demonstrated to be *good* and as Western people think that nothing is too good for their children, we predict that in a very short time Western school boards will decide that the best is none too good, and that nice, comfortable, individual chair desks will be the rule with us in the West as they now are in the East.

DRINKING FOUNTAINS FOR SCHOOLS.

The J. L. Mott Iron Works of New York has issued a large catalogue showing drinking fountains for the schools. The illustrations, seven in number, not only show the fountains as located in the schools, but also the same in actual use. A sectional drawing shows the construction of the same.

The “Crystal Stream” drinking fountain, for that is the name by which it is known, can be secured in sets of four with porcelain receptor or singly. Again it may be had in connection with a wash basin.

We would suggest that school officials send for a catalogue.



DR. FRANK L. MAGOON.
Member Board of Education.
St. Louis, Mo.

Herewith is a partial list of school houses where Luxfer Prisms are installed, and in every instance they have done their work to the full satisfaction of those interested.

Boston University, Boston, Mass.; Buhler School, Cleveland, O.; Central High School, Grand Rapids, Mich.; Hough School, Cleveland, O.; Central High School, Minneapolis, Minn.; Central Grammer School, Montclair, N. J.; Bryant School, Salt Lake City, Utah; Elmwood Place Public School, Elmwood Place, Ohio; Case School, Cleveland, Ohio; Agassiz School, Chicago, Ill.; Mosely School, Chicago, Ill.; Washington School, Chicago, Ill.; Newberry School, Chicago, Ill.; Thomas Hoyne School, Chicago, Ill.; Ellicott School, Boston, Mass.; Phillips School, Boston, Mass.; Concordia Seminary, St. Louis, Mo.; Emerson School, Boston, Mass.; Brownell School, Cleveland, Ohio; Public School No. 16, Corona Borough of Queens, N. Y.; Colored Manual Training, Washington, D. C.; Newton High School, Newtonville, Mass.; Gilpin School, Denver, Colo.; Winchell School, Boston, Mass.; Lakewood School, Cleveland, O.; La Salle Academy, Providence, R. I.; No. 26 Grammar School, Rochester, N. Y.; Episcopal Academy, Philadelphia, Pa.; Ethical Culture School, New York, Borough of Manhattan, N. Y.; California State Normal School, Los Angeles, Cal.; Standard School, Cleveland, Ohio; Norwich University, Northfield, Vt.; Manual Training School, Muskegon, Mich.; State School Building, Keyser, W. Va.; St. James’ High School, Chicago, Ill.; Tyler School, Cedar Rapids, Ia.; Tyler School, Boston, Mass.; Ohio State University, Columbus, Ohio; Winthrop Grammar School, Boston, Mass.; Wait School, Boston, Mass.; Parkman School, Boston, Mass.; College of Physicians & Surgeons, Chicago, Ill.; Massachusetts Institute of Technology, Boston, Mass.; Princeton University, Princeton, N. Y.; State Normal School, Platteville, Wis.; St. Francis Xavier’s Academy, Chicago, Ill.; Sibley School, Cleveland, Ohio; Bolton Annex, Cleveland, Ohio; Waring Annex, Cleveland, Ohio; East Madison School, Cleveland, Ohio; London School, Cleveland, Ohio; Detroit School, Cleveland, Ohio; Orchard School, Cleveland, Ohio; Kentucky School, Cleveland, Ohio; Waring School, Cleveland, Ohio; Public School No. 2, Battle Creek, Mich.; Central School, Kankakee, Ill.; School District No. 1, Ishpeming, Mich.; Longfellow School, Denver, Colo.; Motley School, Minneapolis, Minn.; St. Mary’s School, New York, Borough of Manhattan, N. Y.; Trinity School, New York, Borough of Manhattan, N. Y.; Public School No. 42, New York, Borough of Manhattan, N. Y.; Morristown High School, Morristown, N. J.; Oliver School, South Bend, Ind.; Joliet High School, Joliet, Ind.

We would be glad to send free, interesting booklets and figures to superintendents and principals of schools, and members of boards of education.

American Luxfer Prism Co.

Chicago, 346-348 Wabash Ave.
New York, 160 Fifth Ave.
Boston, 15 Federal St.

Jersey City, N. J. The American School Furniture Company, New York City, received the contract for placing pupils’ desks in the schools here. The contract for teachers’ desks was awarded to Ehlbeck Brothers, of this city. The Furst Company, also of this city, received the contract for window shades.

A corporation desires to establish a large plant for the manufacture of fire proof sheet metal building material, and solicits correspondence with the commercial interests of towns and cities that can offer inducements. Address M. J. Sullivan, 252 Broadway, New York.

Exhaustion

When you are all tired out, feel nervous, sleep does not rest, and your appetite is poor, take

Horsford's Acid Phosphate

It will revive your strength, induce natural sleep, improve appetite, and restore nerve power. It strengthens the entire system, curing the causes of Headache, Indigestion and Debility.

Pamphlet with full information free.
Rumford Chemical Works, Providence, R. I.



Neighbor: Why don't you send them to the kindergarten?

Mother: Because my family is large enough to have a kindergarten of my own.

Superintendent: His retirement from the school board was due entirely to his poor health.

Citizen: Sure there wasn't a squable of some sort?

Superintendent: Positive! If there had been a row the papers would have been full of interviews with the other school board members expressing their "cordial appreciation of his services, their regrets," etc.

School Director: We had a spelling bee at the school last week. The teacher gave out the words. Did you hear about it?

Citizen: No; was it interesting?

School Director: Rather. The first three words he gave out were "increase," "schoolmaster," "salary."

Direkt aus der Pension.

Junge Frau: „Die Eier sind ja furchtbar klein, Mina!“

Dienstmädchen: „Ja, sie waren aber alle nicht größer, gnädige Frau.“

Junge Frau: „So? Na, dann sagen sie der Eierfrau sie soll die Eier künftig so lange im Nest liegen lassen, bis sie die gehörige Größe erlangt haben!“

HOW THE TEACHER BECOMES UNPOPULAR.

"Teacher said the other day," said Willie, "that she'd like to know what in the world kind of a man my paw is."

"Is that so?" cried Mr. Jones. "Is that so? Well, if I ever go down to that school that teacher'll find out mighty soon. Good heavens, did she ever say anything else about me?"

"Nossir."

"Well, it's a healthy thing. I'd like her to know that her place is teaching. If she ever says anything like that again you tell her that your father knows more in one minute than she'll ever learn if she lives forty years after the end of time."

"Willie," said Mrs. Jones, "don't you say anything of the sort. John Jones, what in the world are you thinking of? I'm sure the teacher is not to blame. Willie must have said something to her."

"I'll bet a hat on that. Wha'd you say to her, Willie?"

"I didn't say nothin'. Teacher ast who the Emperor of Germany is, and somebody said Em'perer William. And then I said my father said his name was Kaiser Bill and that he was crazy as a loon, an' then she said that."

"She did. And what made you tell her what I said?"

"Well, I ast you the other night, an' that's what you said, only you didn't say it just exactly."

"Wha'd I say?"

"You said he was crazy as a bedbug."

"And did you tell her that?"

"No, sir. I said 'loon.'"

"That's remarkable. The intelligence you display is something wonderful. I think it must come from your mother's side of the family. My ancestors were all idiots."

"I have sometimes suspected that," said Mrs. Jones. "But it's all your own fault. If you had given Willie a sensible answer to his question he wouldn't have made such a mistake."

"He wouldn't? That's remarkable, too. I'll tell you one thing. I'll bet he doesn't ask me any more questions."

"Now, John, I don't see why you want to say that."

"You don't? Well, just let him ask me, that's all. Willie?"

"Yessir."

"Look up here. Don't you ever ask me another question; you understand?"

"Yessir."

"I don't care what it's about—don't you ever ask me anything again."

"Yessir."

"See that you don't. SEE THAT YOU DON'T. If you do—if you ever ask me any-



One in the Hand is Worth Two in the Store

Always plan so as to have on hand at least one of

DIXON'S AMERICAN GRAPHITE PENCILS

You have no idea how much your labor will be lightened by the use of a smooth, strong, evenly-graded pencil.

Like Ben Franklin—probably the most talented man America ever produced—you will laugh over your work when using these pencils.

Do you wish pleasure? Then use Dixon's American Graphite Pencils, and lo! great pleasure will come from your toil.

Send 16 cents in stamps for samples that will demonstrate this fact.

Joseph Dixon Crucible Co., Jersey City, N. J.

thing again—I don't care what it's about—I'll tan your hide until you won't be able to sit down for a week. Don't forget that."

"Nossir."

"Well, if you do, you don't do it twice. I'll bet on that."

"I'd like to know," said Mrs. Jones, "how in the world you expect the boy to ever learn anything if he can't ask anybody anything?"

"What does he go to school for?" queried Mr. Jones. "Am I the school teacher? Do I send him to school to learn questions to ask me? He asks enough of them without going to school. I'll get him a Webster's dictionary."

"The dictionary don't say nothin' about the emp'rer of Germany," said Willie.

"It don't. Well, where do you expect to find out anything about him? In the Bible? Now you let me hear another word out of you and I'll begin the tanning business right now."

"Johnny," said the teacher, "write a sentence containing the word 'contents.'"

After a few moments' hard labor Johnny submitted the following: "The contents of a cow is milk."

Schoolmaster: Now, let us have "Little Drops of Water" again, and do, please, put a little spirit into it.



The Incumbent.

Woman: Is your husband the president of the school board?

President's Wife: Yes, he is the present incumbent.

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TWO NEW BOOKS.

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Almost all the books published for supplemental reading are too difficult for these grades, and hence we find teachers forced to use two or three different second or third readers which are designed as a basal series for drill in reading but are not intended for supplemental work. Teachers in these grades should try our Hans Andersen's Best Stories.

In translating these stories from the original into English no word is used that is not in the third reader vocabulary, and no complex sentences or involved constructions can be found. Many editions of Hans Andersen are offered to teachers, but no other edition contains only third reader words and only simple sentences.

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State Teachers' Association Meetings.

June 9-14. North Carolina State Teachers' Association. Wrightsville. President, F. P. Venable, Chapel Hill.

June 16-7-8. Alabama State Teachers' Association. Birmingham. President, M. C. Wilson, Florence.

June 17-8. South Carolina State Teachers' Association. Whitestone Lithia Springs. President, Dr. Geo. B. Cromer, Newberry.

June 23-4-5. Georgia State Teachers' Association. Cumberland Island. President, Supt. J. Henry Walker, Griffin.

June 23-4-5. West Virginia State Teachers' Association. White Sulphur Springs. President, Thos. C. Miller, Charleston.

June 24-5-6. Kentucky State Teachers' Association. Maysville. President, Supt. John Morris, Covington.

June 24-5-6. Oregon State Teachers' Asso-

ciation. Western Division. President, E. D. Ressler, Monmouth.

June 30—July 1-2. Pennsylvania State Teachers' Association. Wilkesbarre. President, Supt. Addison Jones, West Chester.

June 30—July 1-2. Ohio State Teachers' Association. Put-in-Bay. President, Arthur Powell, Steubenville.

July 1-2-3. New York State Teachers' Association. Ithaca. President, Supt. Thomas R. Kneil, Saratoga Springs.

July 28. Tennessee State Teachers' Association. Monteagle. President, Sam E. Hill, Knoxville.

Miss Clem Hampton, a well-known educational leader of Florida, met with an accident recently which will necessitate an amputation of an ankle.

Fire Proof Windows for Schools.

Several fine samples of fire proof metal window glass has recently come to our attention. These consist of ribbed wire glass and of polished plate wire glass.

Attention should be called to the fact that while the polished plate affords more light near the window, it does not light the room throughout as well as the ribbed or mazed wire glass, which diffuses the light throughout the room, making all parts equally light, and making reading not injurious to the eyes. The glass is also absolutely fire proof and will remain intact under the hottest fire as long as the wall stands and retains the metal sash in which the glass is held in place.

This glass is encased in metal sashes, which close automatically in case of fire.

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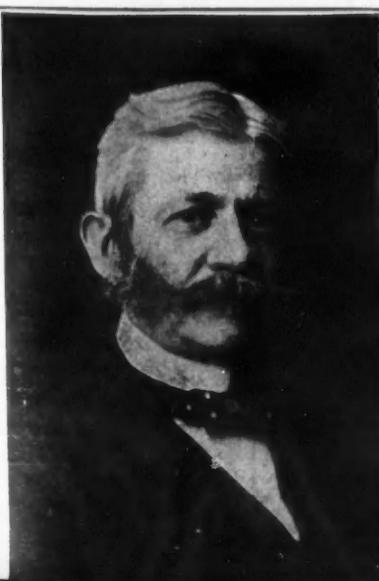
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MODERN SCHOOL ARCHITECTURE.

By A. C. CLAS, Architect.

(Concluded from page 4.)

Bicycle rooms might also be introduced into the basement of every school, one for boys and one for girls, and the entrance to the same should not be a stairway, but an easy incline or runway.

Other Rooms.

In all schoolhouses there should be a teachers' room, with proper sanitary arrangements adjoining; also individual lockers, a reception room, a principal's room and a library, with good light and ample bookcases.

It is also quite important to have a good sized storeroom under lock and key for every floor, for charts, maps and other school materials.

Every large schoolbuilding should have an auditorium or hall, with a seating capacity of from 300 to 600, depending upon the size of the schoolbuilding. The hall should be well lighted, have a stage at least 15 feet deep and 25 feet wide, with anterooms on each side. The hall should have at least two outlets, leading directly to the main stairways.



MR. JOSEPH A. DELANEY,
President Board of Education, Paterson, N. J.

Toilet Rooms.

The toilet rooms of a schoolhouse are a matter that demand the most careful consideration. No doubt, there is a great deal of harm done by bad sewerage and careless arrangement of toilets.

Toilet rooms must be conveniently located, so that very little time is used in passing and going from them, but at the same time they must be practically isolated from the schoolrooms, and those for the boys removed as far as possible from those of the girls. I do not think that water closets should be located in the basement of buildings, because of the poor convenience, bad light and bad ventilation, but should be placed on every floor above. They should be connected with the main corridor through the hallway, having direct light and ventilation; in other words, this hallway is between the toilet room and main corridor, making two doors between the corridor and toilet room. The water closet should be constructed with as little wood-work as possible. The floors should be of a hollow tile or concrete construction instead of the ordinary wood joists, and instead of a maple floor, an encaustic tile floor should be used.

The floor should pitch toward a trap outlet near the center of the room, so that in cleaning out a hose can be used, and the water drained off at once without flooding the building. The walls should be lined with an enamel brick instead of a wood wainscoting. The stall partitions should be of slate or marble, and we find that often with the best constructed and arranged toilet rooms no satisfactory results can be expected until we find more efficient janitors, or unless those that we have, happen to be supervised by an Association like yours.

Heating and Ventilation.

What the respiratory system is to an animal the ventilation system is to a building; therefore, if the heating and ventilation system is not successful, it will be unsatisfactory when occupied.

It is generally conceded that steam is the best medium for all classes of school buildings, and that the automatic system is more economical in the majority of cases than the fan system, but the fan system is the most reliable and effective. The schoolroom should have direct as well as indirect heating. The direct radiation

should be placed along the outer wall under the window stools.

The air supply, or indirect radiation for a schoolroom having a cubic space of 12,000 feet and seating 45 to 50 scholars, should have from 2,000 to 2,500 cubic feet of air per hour for each occupant. This warm, pure air should be introduced at a considerable height from the floor, through brick or galvanized iron flues, and it should be removed at the floor level upon the same side of the room through similar flues. The boiler room is generally located in the basement. The ideal plan has the boiler and fuel room in a structure by itself outside of the main walls of the building, generally in the rear of building; such an arrangement secures safety to the schoolhouse.

Floors.

A floor constructed of iron beams and the hollow tile or concrete, making it fireproof and soundproof, is, of course, the very best construction, but generally not enough money can be obtained to carry out a construction of this kind.

The ordinary wooden joists construction is what we have to be, as a rule, contented with.

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School Board Journal

New Rules and Regulations.

Newburyport, Mass. A new system of promotions in the grammar schools has been adopted by the board, viz.:

Section 1. No child shall be kept over two years in any one grade, without consultation with the superintendent.

Section 2. Promotions of pupils of the first, second and third grades shall be made by the teachers.

Section 3. A monthly record shall be kept of each pupil's scholarship, which shall be the basis upon which the judgment of the teacher and superintendent shall depend in deciding upon the fitness of the pupil for promotion.

Section 4. Promotions, from the fourth to the ninth grades inclusive, shall be made by the principal of the school and the superintendent.

Section 5. Whenever a pupil fails to perform the work of a grade faithfully, the teacher shall inform the parent or guardian, and unless there is sufficient improvement after a trial of three months to warrant the continuance in the grade, the pupil may with the approval of the principal and superintendent be dropped to the grade below.

Section 6. Non-resident pupils shall be admitted to the fourth class of the high school by written examination, the questions to be prepared by the superintendent and the principal of the high school.

Omaha, Neb. The school board have provided "ten rules of politeness" for the children of the public schools. One of the rules reads: "To be polite is to have a kind regard for the feelings and rights of others."

Carlisle, Pa. The school board have decided that a standing of 85 per cent. in any high school study is sufficient to excuse such pupil

from final examination. The standing is to be determined by the averaging of the daily marks with the monthly standings.

Toledo, Ohio. The school board will enforce an old state law the closing of pool and billiard rooms if it is found that these rooms are harboring truants from the public school.

Manual training supplies may be obtained from E. H. Sheldon & Co., Evanston, Ill.

Supplies and Equipments.

Burlington, Ia. A resolution to prohibit agents from exhibiting their supplies or apparatus between the hours of 8:45 a. m. to 4:00 p. m., was recently passed by the board of education.

Youngstown, Ohio. A No. 6 Remington typewriter has been purchased by the board.

Springfield, Mass. Meekins' Packard & Wheat recently received the contract for placing between 600 and 800 seats in the assembly hall of the North Chestnut Street school building.

Hamburg, Pa. The board has bought a No. 7 Remington typewriter.

Alliance, O. The Central Scientific Company of Chicago has furnished apparatus for high school use amounting to forty-five dollars.

Oshkosh, Wis. The board has bought a Remington typewriter.

During the year ending June 1, the Columbia School Supply Company placed 175 Crowell cabinets in the best schools of this country. The cabinet has been much improved and is better than ever. It will cost nothing to investigate its merits. Send them your order during June or July that you may be served promptly and be prepared for work when the fall term opens.

Marlin, Texas. The new school building has been equipped with 541 desks for scholars, teachers' desks, chairs for fourteen classrooms, and superintendent's desk and office furniture. Several supply houses presented bids, but the Haney School Furniture Company, of Grand Rapids, Mich., received the contract.

Anaconda, Mont. The Northwest School Furniture Company have the contract for putting Venetian blinds on the new school building.

Buffalo, N. Y. Five stereopticon lanterns have recently been purchased by the superintendent of public instruction for use in the city schools. Each lantern and five sets of slides are

Plaster Casts

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to remain in one school for a week. "The Bright White Light" Society Lantern D, is the name of the instrument and is manufactured by Williams, Brown & Earl, of Philadelphia, Pa. These lanterns are designed for use in schools where electricity is not available. They have proven so satisfactory that many principals have decided to buy stereopticons for their schools.

"Talking about the relative cost between natural slate and artificial slate," recently said a school supply man, "it may be said that natural slate of the best grade will cost 16½ cents, 17½ cents and 18½ cents per square foot for 36, 42 and 48-inch boards, respectively. This price is net f. o. b. cars the quarries. The freight from the quarries to Chicago is from 3 cents to 4 cents per square foot. To properly set slate in the wall, it requires a special mechanic to make a good job, and this will cost about 4 cents per square foot additional. Therefore, the net cost of natural slate placed on the wall is about 25 cents per square foot and more. The artificial slate is furnished, placed on the wall, complete, ready for use, for 15 to 16 cents per square foot."

The Caxton Company of Chicago is now operating its own factory for the manufacture of artificial slate blackboards. They are made in both green and black. The green have become quite popular during the past few years. It is said that they are restful to the eyes, and harmonize, usually, with classroom decorations.

Mr. M. H. E. Beckley has retired from the Standard School Furnishing Company and connected himself with the Caxton Company. Mr. Beckley is an experienced school supply man and an industrious and conscientious worker.



CHARLES BOLBACH,
Member, Board of Education, O'Fallon, Ill.

OUR NEW CATALOGUE

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THE SCHOOL HOUSE JANITOR IN GREATER NEW YORK.
(Concluded from Page 6.)

janitors, janitors' helpers, employees of the building department and members of the board of education. The counsel of the Janitors' Association has asked permission to cross-examine the witness, and is keeping things interesting. Whether the commission intends to try again to require the cleaners to be selected from an approved list and to be paid at known and regular wages by the city, it does not say. The dangers we, as parents, most fear are the dangers of dirt.

VARIOUS WAYS OF CLEANING UP.

Douglas Stewart says the present system compels children to pass their time in such wretched places that it ruins their health and dwarfs their minds. He says a good part of the next generation of New Yorkers will be near-sighted, crooked and hysterical. He wants a department of window cleaning organized so that the squads may go from school to school to let in the light. He thinks the apathy and indifference of the public to dirty schoolhouses is terrible.

The charter says they shall visit each building at least four times a year and inspect the same in respect to cleanliness, safety, warming, ventilation and comfort.

The principals say that the service of the local boards in this respect would be a hundred times more valuable than the attempts to estimate the scholastic intricacies of the course of study.

One principal suggests that the schoolmasters themselves should ask for a committee consisting of an elementary school principal from each borough, one high school principal from the greater city, one district superintendent, one associate superintendent, one member of a district board, one member of the school board, one physician or sanitary expert and one manager of a large office building.

This committee should invite all interested or able persons to speak before it; this committee should investigate the janitor work in other cities, in schools and large buildings, and should devise and present to the board of education a report of what constitutes adequate janitor work and what constitutes a fit school from cellar to garret.

Chicago, Ill. The board of education are trying to do away with the useless noises, and dangerous methods of celebrating the Fourth of July. They have adopted a resolution, that all parents be requested to persuade their children from exploding blank cartridges, firecrackers, fireworks and other dangerous, noise-producing materials, likely to injure life and property; and be it further

Resolved, that the commissioners of all the public parks in the city be requested to have concerts, entertainments and patriotic speeches at the different parks on Independence day.

Missoula, Mont. By the recent adoption of a resolution the board requires that no "person shall be employed in the Missoula schools as a regular teacher who has not had at least one year of nine months' successful experience, and who does not hold a first grade certificate in full force at the time of employment. All principals and high school teachers must hold state certificates or life diplomas, or the equivalent of these certificates at the time of election."

"ALL ROADS LEAD TO ROME."

And all business in New York seems to tend toward the Grand Central Station. This great building, which covers the space of four city blocks, beginning at the corner of 4th avenue and 42d street, is the metropolitan terminus of the New York Central Lines, and is the center of the hotel, residence, club and theatre district of the second city of the world. To reach it, see that your ticket reads by the New York Central.

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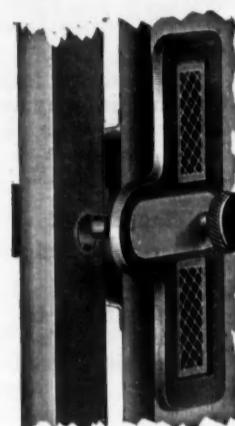
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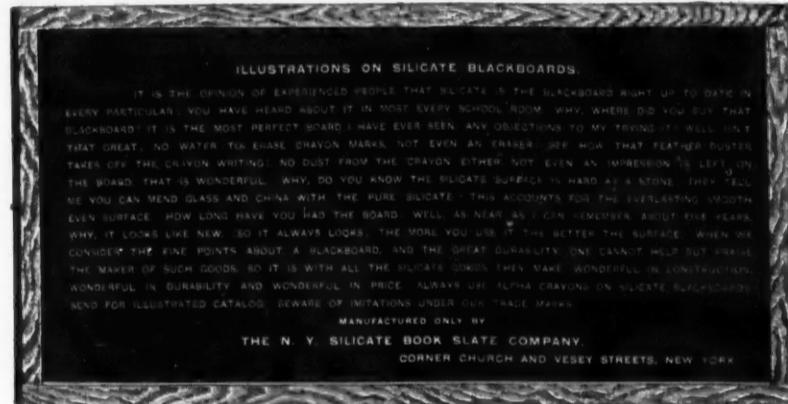


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ST. LOUIS SCHOOLS.

The New Cote Brilliante and the New Blow Schools—Wm. B. Ittner, Architect.

Each building contains twenty-two classrooms, each 25 feet by 32 feet 6 inches, and a Kindergarten equal in area to two of the above rooms, making a total of twenty-four rooms. The classrooms in general are lighted from one side only; in the corner pavilions small windows are introduced over the blackboards in one other side of the room, for the purpose of gaining a better architectural effect and for cross ventilation in the summer time. In seating the rooms, however, care is taken that neither teacher or pupils face this second source of light, which for the greater part of the time is subdued or eliminated with window shades.

Each classroom has its wardrobe, with a window in the outside wall. There are no openings from the wardrobe to the hall; the classrooms being ventilated through the wardrobe; thus the teacher has absolute control of the entrance and exit to her classroom.

The Kindergarten is situated on the first floor, and has a wardrobe, with outside windows; also a workroom, which contains a sink and cupboard and work table for storing the Kindergarten supplies and preparing the materials for use by the class. The room being about 30x60 feet, provides ample accommodation for the placing of the Kindergarten chairs and tables in one end, leaving the other end of the room open for the circle and floor work.

In the second story the principal's office, library and toilet room are situated over the main entrance.

Where these two buildings are shown only

two stories high on the front, in the rear the basement stands full out of the ground, the entrance from the play grounds being directly into and on a level with the basement floor.

In the basement are located the general toilets for both boys and girls. There are also at each end of the building two large playrooms, about 30x70 feet, which are opened in the early morning, permitting the children to gain access to the building and toilets, but not to the upper floors until the proper time arrives. These playrooms are equipped with a series of wall benches and are thoroughly lighted and ventilated.

In all of our new school buildings the heating and ventilating system installed has been the steam fan or plenum system. Fresh air is drawn in at a level of about 30 feet above the ground on the front, over the lawn, at each of these buildings; passes down and to the fan; it is then blown through the heating coils and through individual ducts leading to each room and corridor. The warm air entering the classroom at one end of the room about 8 feet from the floor, makes a circuit of the classroom and passes out through the wardrobe at the floor level. Thus a current of constantly changing air is passing through the room and wardrobe, and out through the vent ducts to the outer air. The system is designed, and does change the air in every class room every seven minutes, and changes the air through the basement and corridors in about the same length of time, supplying each pupil with 30 cubic feet of fresh air per minute.

The toilet accommodation provided in the basement includes latrines and urinals of our own design. The toilet rooms themselves are

ventilated through the fixtures; that is, a 1x6 inch vent opening is provided for each water closet bowl, and the entire base of the urinal is open along its entire length. Thus the air from the toilet rooms passes out through the fixtures themselves.

The vent ducts from the toilet rooms are connected to the boiler stack, where a powerful draft is induced by the heat therefrom; during the summer months this draft is created by a stack heater placed in the base of the stack.

In plan the buildings are built in the shape of the letter E. The classrooms skirting the corridors on three sides. The corridors are thus open to the outer air almost for their entire length, with the two stairways at each end, the stairs having noiseless treads of asphaltum in cast iron boxes. The corridors are 18 feet wide and offer admirable accommodation for joint calisthenics and other exercises.

Each class room has about 80 running feet of slate blackboard, with a rack above, arranged for the exhibition of class work.

The building throughout above the basement is finished in oak in the simplest form, all rooms and corridors being decorated in oil in pleasing colors, with narrow stencil in panels and under picture moulding.

The buildings are thoroughly fireproof, being built with ordinary hard and red common brick, laid up with wide gray joint; are trimmed with white stone and covered with red tile roof. The floors throughout are of concrete construction, with a finished maple wearing surface.

The buildings complete, and ready for the equipment of school desks will cost about \$130,000 each.

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National Educational Association

AT BOSTON,
July 6-10, 1903.

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In this method of construction a double floor should be used; the first floor lining must be laid diagonally; then a heavy thickness of deadening felt or sheathing quilt is laid over the lining, or a filling of mineral wool may be used between 2x4 strips laid on top of the felt paper. The upper or finished floor should be of maple, in widths not over 2½ inch on face, and must be blind nailed and finished with two good coats of hot linseed oil.

Finish.

In the finish of the schoolroom the same rules hold that govern the treatment of a hospital. All projections, heavy mouldings and ornament in wood or plaster which catch and harbor dust must be avoided as far as possible. Wood wainscoting should be avoided and instead a hard plaster of cement painted with oil should be used. Wood ceilings should be substituted with a plaster ceiling on wire lath. Window and door casings can be avoided by making the joints with rounded corners of plaster. In fact, reduce to a minimum every absorbent and combustible material in a schoolroom. Every room should have a picture moulding and a bookcase. The entrance door to the schoolroom should have a glass panel.



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Blackboards.
The black boards should be avoided on account of the strong contrast with the white chalk. A dark green board gives best results.

Exterior Design.

The exterior design of a schoolhouse may be plain, yet should be architecturally correct; it must be well proportioned and should always look bright and cheerful, so that it will make a proper and correct impression on the young mind who works and dwells under its roof day after day.

RELIEF MAPS.

The usefulness of relief maps has long been recognized by progressive teachers, and nowhere is a clear conception of the forms of relief more essential than in the graded and district schools. It gives to the pupil a clearer idea of the undulations of the earth's surface, of the comparative heights of mountains, of depressions, river beds, water-sheds, etc.

For a class in geography to make pilgrimages to the very scenes described in their text-books, and note carefully the topographical forms of the country, is indeed productive of the best results, and the pupil who has access to a good relief map shows a superior knowledge of geography over one who has not had such advantage.

Edwin E. Howell, Washington, D. C., a pioneer in the manufacture and sale of relief maps, has just completed a spherical relief map which is a great improvement over the old style; it is neater in appearance and at the same time the proper curvature is secured.

Norfolk, Va. A resolution adopted by the board of education provide that "any parent or guardian so desiring may furnish their children attending the schools with cups or glasses for their individual uses."

The action was taken upon recommendation of the board of health.

Milwaukee, Wis. Chemical laboratory supplies and physical apparatus has been furnished by the Central Scientific Com-

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pany of Chicago. Contracts for furnishing books have been awarded to Des Forges & Co., of Milwaukee, and to Macmillan & Co., Chicago.

THE NEW EDUCATION CHART.

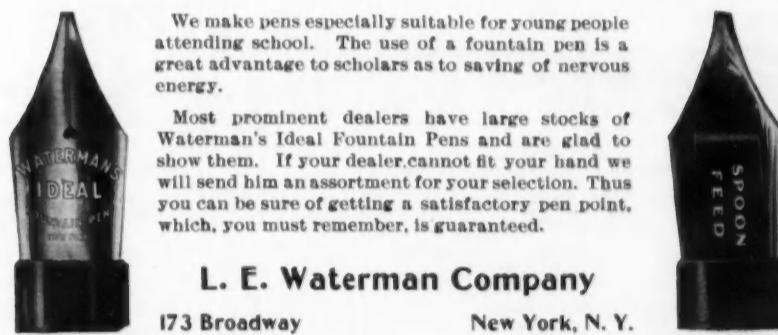
A controversy arose recently in one of the counties of Wisconsin regarding a new chart, which had met with a large sale in that section, despite an avowed opposition on the part of the county superintendent of schools.

An investigation into the controversy reveals the fact that the chart in question is really an article of great merit. It is a new work, and is published by the Diamond Publishing Company of Minneapolis, Minn. It not only involves a large investment of money, but also years of labor in research and compilation, to demonstrate collated facts and information, in connection with the leading branches of study. The work of the scholar is well presented by the artist and the printer, and the chart, as a whole, is attractive as well as educational—hence useful.



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Montgomery, Ala. Bids for the new text-books were opened April 16 and the adoptions will be made about June 15.

Montana. The text-book law recently enacted provides that free text-books may be used in all schools if the voters so desire them.

Newson & Co. have removed their offices and salesrooms from 15 East Seventeenth street to 18 East Seventeenth street, New York City. This young firm has acquired some valuable adoptions and is growing rapidly.

Texas now has a uniform text-book law, cities of 10,000 population or over excepted. The last Legislature passed one in which the Governor, Attorney General, Commissioner of Insurance, Statistics and History, Superintendent of Public Instruction, and three public school teachers (appointed by the Governor), who have taught continuously for at least five years shall constitute a state text-book board. The duties of this board is to examine all text-books submitted by bidders and select those which in their opinion are best suited for instruction. The law provides that books so selected shall be used exclusively for a period of five years beginning September 1, 1903.

Text-book Adoptions.

Atlanta, Ga. The following text-books have been adopted by the board of education to be in use for the next five years: Hyde's two-book course in English, for grades three to eight; Benson's Primary Speller, for second, third and fourth grades, published by D. C. Heath & Co. of Boston; Reed's Word Lessons, for grades five, six, seven and eight, by Maynard, Merrill & Co. of New York; Coman and Kendall's English History, by the Macmillan Company of Chicago; Model Music Series, by the American Book Company of Cincinnati; Lee's Reader No. 4 for fifth grade, and Lee's First Reader for first grade.

Pittsfield, Mass. The slant system of writing has been adopted in the public schools here.

St. Paul, Minn. The medial copy books have been adopted in the schools.

Oskaloosa, Iowa. Recent adoptions of text-books in Mahaska County, Iowa, are: Natural Geographical Series, published by the American Book Co. of New York. Grammars: "The Mother Tongue," a two-book series by Ginn & Co. of Boston; Reed's Word Lessons, by Maynard, Merrill & Co. of New York.

Defiance, Ohio. The board of education have adopted the Davis Elementary Physical Geography in the public schools.

Winchendon, Mass. The school board have decided to introduce a commercial course in the school next year.

Alliance, Ohio. The school board have adopted Walsh's Grammar School Arithmetic No. 2 published by D. C. Heath & Co. of New York; Mother Tongue Language Book No. 2 by Ginn & Co. of Boston.

Grand Rapids, Mich. The Board of Education will introduce a new study in the schools. It is proposed to have flower beds for the purpose of instructing the children in flower culture.

Westbrook, Me. The school board have adopted Williams & Rogers' Commercial Arithmetic and English and American Literature in the high school.

Newburyport, Miss. For supplementary reading: Fables and Fairy Stories, Around the World, Whittier's Child Life. For reference: Webster's International Dictionary.

Chicago: For reference: Webster's International Dictionary, Lippincott's Pronouncing Gazetteer, Liddell & Scott's Dictionary, Johnson's Universal Cyclopedias, Allibone's Dictionary of Authors, Brewer's Readers' Handbook, Gray's Manual of Botany.

Milwaukee, Wis. The vertical round hand copy books, published by Ginn & Co., have been readopted.

Algona, Iowa. School books adopted by the county are: Baldwin's Readers, Milne's Arithmetics, Lyte's Grammars, Natural Geographies, McMaster's Histories, Overton's Physiologies, published by the American Book Company, New York, Cincinnati, Chicago.

Westbrook, Me. Williams & Rogers' Commercial Arithmetic has been adopted in the high school and English and American Literature to the senior year. Tappan's "Stories of

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II. New Century Readers. A Five and Eight-book Series.	XIV. The CANTERBURY CLASSICS
III. Dryer's Series of Rand-McNally Geographies. (Three books.)	(a) Rab and His Friends. (b) Gold Bug. (c) Cricket on the Hearth. (d) King of the Golden River. (e) Story of a Short Life. (f) Alice in Wonderland. (g) Treasure Island, Etc.
IV. Hewett's Speller.	XV. NEW SUPPLEMENTARY READERS
V. Hewett's Arithmetics.	(a) Sunbonnet Babies' Primer. (b) Child's Garden of Verses. (c) Four Old Greeks. (d) Wings and Stings. (e) Viking Tales. (f) Eskimo Stories. (g) King Arthur (h) Norse Stories. (i) Classic Myths. Etc., Etc.
VI. Composition and Rhetoric. By KAVANA and BEATTY.	
VII. Language Through Nature, Literature, and Art. By PERDUE and GRISWOLD.	
VIII. Hand-Loom Weaving. By TODD.	
IX. The Rand-McNally Primary Grammar. By HALL.	
X. The Rand-McNally Practical English Grammar. By HALL.	
XI. On Beginning Number Work. By O'BORNE.	
XII. The Round Rapid Writing Books. (Nine numbers.)	

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"Our Country" has been recommended by Superintendent Benson for supplementary reading in the sixth grade.

Lawrence, Mass. The board of education has adopted the Werner Arithmetic, published by the American Book Company, for general use in all grades below the high school.

Supt. S. L. Rose, of Hamilton, O., died March 31, 1903.

The Summer Quarter of the University of Chicago, in session from June 17 to September 3, offers unrivaled opportunities to teachers for review and special study. The terms are so arranged as not to interfere with the ordinary work of the teacher. A special circular will be sent on application to the University of Chicago, Chicago, Illinois.

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SECURED THE MAP AGENCY.

How an Energetic Man Secured the Agency for the W. & A. K. Johnston Maps.

Some time ago it developed that the agency in the United States for the W. & A. K. Johnston celebrated school maps would go into new hands. Several school supply houses applied for the agency, and considerable correspondence crossed the Atlantic Ocean in the negotiations.

The Johnston maps have for many years been a standard schoolroom article, and the exclusive sale for the same in the United States has always been a considerable item.

While this correspondence was in progress, a young man in Chicago quietly packed his grip, jumped on a train for New York, and there boarded an ocean steamer for Europe. He sought out the publishers, presented himself in person, and urged his case.

When he returned, he carried with him the contract, which gives him the sole agency in the United States for the Johnston school maps, globes, charts and other educational appliances.

This young man is A. J. Nystrom, formerly connected with W. A. Olmstead of Chicago.

Mr. Nystrom first came into notice by his miraculous escape from the catastrophe which befell the headquarters of the W. A. Olmstead Company some years ago. In this horrible fire Mr. Olmstead, Mr. Arms and nearly all of the employees lost their lives.

Mr. Nystrom was, also, for a time, connected with the Caxton Company. His experience in the school supply business covers some ten years.

In assuming the important agency, he has opened offices and salesrooms at 134 Lake Street, Chicago, under the firm name of A. J. Nystrom & Co. He will urge the sale of his goods



A.J. NYSTROM.

Manager Nystrom & Co., Chicago.

throughout the United States with energy, and will leave nothing undone to spread the fame of the celebrated maps. He will, unquestionably, increase the annual sale of the Johnston goods to a considerable extent.

Mr. Nystrom, by virtue of his past experience, untiring energy and honorable business methods, is peculiarly fitted to manage, successfully, the present enterprise. Those who know him, congratulate him upon his past success, and wish him well in his present enterprise.

HOLDEN TALKS TO REED.

G. W. Holden, president of the Holden Patent Book Cover Company, Springfield, Mass., recently wrote George Howard Reed of the Dixon Educational Department as follows:

Grand High Rajah & Cockoloram Reed:

Dear Sir—Seeing your adv't in Geological Magazine, requesting information as to my position in the educational, literary and commercial fields, I wish to say.

I am engaged in educating the children of the United States in the use of my self-adjusting, back-action, armor-plate book covers, by the use of which each child can help keep me in cigar money and something to "blow in" whenever I meet any of your company at conventions.

In the literary line I have recently bought a set of 60 volumes of the World's Classics, comprising Oriental, Roman, French and English literature. I haven't read any of them, but it makes me feel literary to look at them.

In the commercial line I go out to try to get orders, but whether from lack of experience or want of cheek, or being properly dressed or I don't know what, I find when I get home I haven't taken any and I am still scratching my head to find out how it happens.

Now, if this fulfills the request in your adv't and entitles me to those wonderful samples of pencils, warranted to make life worth living, I'll be pleased to receive them.

Yours truly,

H. W. HOLDEN.

Springfield, Hamden Co., Mass.

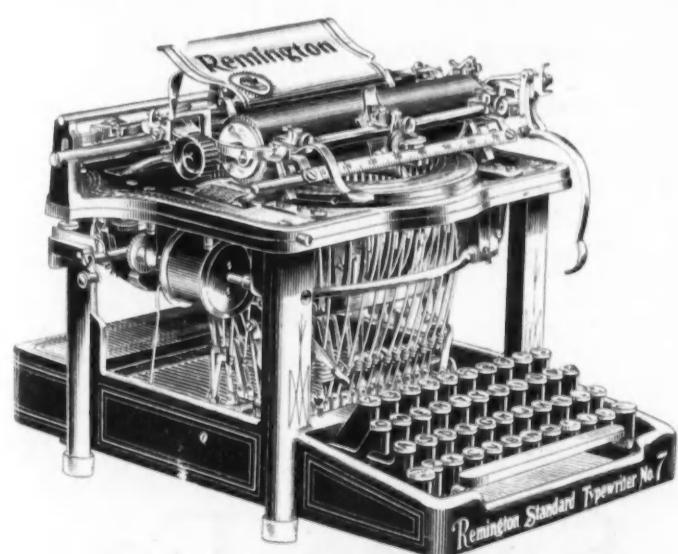
P. S.—If out of pencils send me a spring overcoat, a high hat or any old thing.

Robert M. King, who was formerly the manager of Henry Holt & Company's Chicago office, is doing well in the insurance line.

W. E. Echlin, the insurance man, was at one time with Charles Scribner's Sons. Later he represented D. Appleton & Co. J. A. Townsend, also an insurance mortal now, was the western manager for Charles Scribner's Sons.

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Is out of sight.

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School Board Journal

ARTIFICIAL VERSUS NATURAL SLATE.

In ascertaining the relative cost of slate blackboarding over any artificial product, the comparison must necessarily be made in each specific instance for the reason that the quantity purchased at a single time would not only have an effect on the price of both slate and the artificial product, but it would also effect the cost of delivery. Furthermore, the location of a school building, where the blackboards are to be placed, would also have a bearing on the cost.

The state of Pennsylvania contains about all of the quarries where slate is mined for blackboard purposes, and, consequently, freight on slate must invariably be added from Pennsylvania.

All or nearly all artificial blackboards are manufactured and shipped from Chicago. Slate weighs approximately six pounds to the square foot of surface. Hyloplate and other materials of a like nature with wood pulp backing weigh from one-half to three-quarters of a pound to the square foot. Carbo-slate, Columbo-plate, and other artificial products with wood and minerals for a backing weigh from a pound to a pound and a half per square foot of surface.

It is safe, nevertheless, to say that artificial blackboards weigh from one-fourth to one-tenth of slate, and the rate of freight per 100 pounds is less on these artificial products as there is less liability of breakage than of slate, and consequently for the same distances the cost of carriage on artificial blackboards is much less for the same surface on account of lesser weight and the rate is less because of less risk or liability on the part of common carrier.

Furthermore, Chicago is nearer the center of the field wherein a large majority of blackboards are required for new buildings, and consequently, the distance to be transported is only a fraction of what it would be for slate and shipped from Pennsylvania.

The above comparison on freights is quite apparent on the Pacific coast and the cost of delivering slate is so great that that material is hardly used in the far West, the freight amounting to as much if not more than the cost of the material at the mines.

After delivering the materials at the school buildings, we can take up the comparison of putting same on the wall. To properly place slate on a wall in a school building requires the services of an expert mechanic, and the use of cements or other similar materials to bed the slabs in on the wall.

The cost of putting up slate in this manner varies from 4 to 10 cents per square foot, depending upon the size of the contract. No ordinary mechanic without experience in this business can place slate and consequently railroad fare must be paid for an experienced workman even for a small job composed of only a few hundred feet, and this runs the cost up to as high as 10 cents, while, if there is a carload or more of this material to put up, and the point is easy of access, and the railroad fare is not too much from wherever the slate setters make their headquarters, the expense can be brought down to 3 or 4 cents.

The cost of putting Hyloplate, Carbo-slate or any other artificial product on the walls is simply the cost of setting the slabs up and nailing or screwing them in place, which can be done by any mechanic and requires no backing or auxiliary material, and therefore the cost of placing the artificial blackboards on the wall is nominal.

It is quite difficult to compare the cost of materials at the point of manufacture, as the price of slate depends upon the cost of mining, together with the all-important element of supply and demand and prices fluctuate every season.

At the present time slate is from 20 to 25 per cent. higher at the mines than a year ago, be-

cause of a large demand for roofing slates and also on account of increased cost of labor and other materials used in mining.

The cost of the various artificial blackboards is quite variable, but none of these materials equal the cost of slate at the quarry even under the most favorable conditions in quarrying slate, therefore, an artificial blackboard is cheaper in purchase at the point of shipment than slate, costs from one-fourth to one-tenth of the slate to transport it, and costs from one-fourth to one-tenth of the slate to put it up, and, ultimately, the cost of an artificial board placed on the walls should not exceed one-half the cost of stone slate.

One other element of difference occurs in the width of the blackboard and the size of slabs required. The cost of stone slate increases considerably as the size of the slabs required increases. A stone slate blackboard of ordinary width put up on the wall in the Middle West would cost from 30 to 35 cents per square ft., and an artificial board can be put up on the wall for nearly one-half of this amount.

ST. LOUIS WORLD'S FAIR.

The committee and sub-committees which will have in charge the preparation of the St. Paul schools' exhibit at the Louisiana Purchase Exposition have been selected and the work of preparing an exhibit will commence at once. The details of the exhibit are now under consideration but the collection will probably not be completed for many months. The committee will strive for something unique in the line of school exhibits.

An International Congress of Arts and Sciences will convene at the Exposition September 19, 1904, and continue until September 30. The executive committee consists of Professors Simon Newcomb of Washington; Hugo Münsterberg of Harvard, and Albion W. Small of Chicago.

The school men of Iowa will ask for \$15,000 for an educational exhibit. An allotment of 12,000 square feet in the palace of education will be asked for. The gentlemen interested in the matter are: Senator Trewin, Supt. S. H. Sheakley, Hon. Henry Sabin, Prof. S. W. Stookey, Cedar Rapids; Maurice Ricker, Burlington; C. J. Adams, Elkader; Prof. J. B. Knoepfel, Cedar Rapids; Prof. Thomas MacBride, Iowa City; Prof. A. N. Palmer, F. R. Conaway, Supt. J. J. McConnell, Cedar Rapids; State Supt. R. C. Barrett, and Prof. E. W. Staunton, Ames.

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Bright Pupil: Three.

Teacher: Name them.

Bright Pupil: Bodily force, mental force and the police force.

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ALABAMA.

North Birmingham—Architects J. B. Carr & Co., Birmingham, have prepared plans for two school buildings; \$25,000.

ARKANSAS.

Texarkana—\$20,000 to be spent on schools. Little Rock—A \$20,000 school to be erected. George L. Basham, president of board.

COLORADO.

Pueblo—Architect G. W. Roe has plans for a 14-room school; \$40,000. Colorado Springs—The V. Z. Reed Library association will erect a new building. H. T. Pinnock, secretary. Boulder—Roe & Gile, architects, Pueblo, are preparing plans for an addition to the library of the University of Colorado; \$60,000. Denver—A 12-room school contemplated. Address Henry Koepke, secretary. Fountain—Architect A. J. Smith, Colorado Springs, Colo., has drawn plans for a \$15,000 high school; 6 rooms.

CONNECTICUT.

Bridgeport—Architect H. A. Howe, Jr., has plans for a 4-room school addition on Maplewood avenue. Also plans for the addition to Waltersville school. Torrington—Two new schools contemplated. E. H. Forbes, superintendent. Bridgeport—Architect Joseph A. Jackson, 256 Broadway, New York city, has plans for a \$40,000 school for St. Charles' parish. Torrington—Architect E. H. Waterbury has plans for an 8-room school. New Britain—William H. Cadwell, architect, and Walter P. Crabtree, associate architect, 213 Main street, have plans for a 20-room school for St. Mary's Church corporation. West Haven (Sta. New Haven)—Architect L. W. Robinson, New Haven, has plans for an 8-room addition to Union school.

DELAWARE.

Delmar—Architect W. D. Brinckle, Equitable building, Wilmington, has plans for a \$7,000 school.

FLORIDA.

Jacksonville—Architect H. J. Klutho drew plans for the \$70,000 library to be erected.

GEORGIA.

Dublin—A \$10,000 Carnegie library contemplated. La Grange—\$10,000 industrial building to be erected for La Grange Colored academy. Oicilla—A \$10,000 to \$12,000 bond issue to be voted on for new school.

ILLINOIS.

Chicago—Improvements to be added to McKinley high school; cost, \$250,000. The Linne school, at Belmont and Sacramento avenues, \$80,000; new normal school at Normal Park, \$350,000; Langland school, Cortland and Leavitt streets, \$60,000; Lake high school, Union avenue and Forty-seventh place, \$125,000; English high and manual training school, Division and Sedgwick streets, involving the reconstruction of the Lyman Trumbull school, \$150,000.

In addition the following improvements have been mapped out and in some instances contracts have been let; Park Avenue school, \$70,000; Englewood high, \$8,000; Foster, \$12,000; Harvard, \$45,000; James Otis, \$85,000; Skinner, \$25,000; Eberly Avenue and Cullom Street, \$80,000; Ohio Street and Sawyer Avenue, \$75,000; Brownell school, \$12,000; Tilton, \$15,000; Cooper, \$50,000; Austin high, \$30,000; Washtenaw Avenue, \$55,000; Pickard, \$75,000. Write Architect William B. Mundie, board of education. Champaign—Improvements to be made to Gregory and Lincoln schools. F. U. Helbing, chairman building committee. Moline—Olof Z. Cervin has prepared plans for an addition to the Ericsson school; \$18,000. Chicago—Architect Henry Worthman, 625 W. Chicago avenue, drew plans for the \$35,000 school, corner W. Chicago avenue and Lincoln street, for St. John Cantius congregation. East St. Louis—A \$15,000 school to be erected for St. Elizabeth parish. Cairo—Architects Kelly & Kusener are

preparing plans for an 8-room school for St. Joseph's Catholic church; \$10,000. Chicago—Architect Fred Ahlschlager, 70 La Salle street, has plans for an addition to school on Diversity boulevard, for the Bethlehem Ev. Lutheran church. Gilson—William Wolf, architect, Galesburg, Ill., has plans for new township high school here.

INDIANA.

Alexandria—Architects Kramer & Harpster, of Findlay, O., have prepared plans for the \$30,000 high school here. Rushville—A \$35,000 school to be built. Indianapolis—School No. 40 to be erected for colored pupils; 6 rooms, cost,

\$20,000. Kokomo—Architect James F. Bruff has prepared plans for the \$25,000 Carnegie library to be erected. Lebanon—C. A. Krutsch & Co., architects, 88-93 Baldwin block, Indianapolis, have plans for the \$13,000 library to be erected. Milford—Architect H. F. Frazier, Nappanee, Ind., has prepared plans for the \$2,500 school to be erected. H. B. McMillan, architect, 25 N. Walnut street, has plans for the Carnegie library to be erected. Fort Wayne—Architects Wing & Mahurin have prepared plans for a 6-room school for Hamilton township, Delaware county; \$16,000. Bedford—Architect Pritchett has plans for a \$17,000 school to be erected. A \$13,000 addition will be erected to the high school. W. M. Dennison, city clerk. Bettendorf—\$15,000 bonds have been issued for a new high school. Hoover—A. D. Mohler, Huntington, Ind., is the architect for the 2-room school here. Goshen—A \$10,000 Elkhart Institute contemplated. Rushville—Architect Phillip Jeckel, Anderson, Ind., is preparing plans for a new \$30,000 high school. Seymour—Carnegie has donated \$10,000 for a library here. Frankfort—Architect J. F. Alexander, Lafayette, Ind., has plans for a new school. Fairfield—Architects C. A. Krutsch & Co., Indianapolis, Ind., have prepared plans for school here. Indianapolis—A 6-room school to be built, according to plans of Thomas A. Winterrowd, architect. Shadeland—Architect George S. Brown, Lafayette, Ind., has prepared plans for a school for Geo. B. Shelby, trustee. Fansler—Architect W. H. Powers, Bluffton, Ind., has prepared plans for a district school; \$4,000. Domestic—Architect W. H. Powers, Bluffton, Ind., has prepared plans for a \$3,000 school. Russiaville—A high school to be erected. Lucerne—A 1-room school to be erected, plans prepared by James A. Cook, architect, Logansport, Ind. North Vernon—Plans of Architect John W. Gaddis, Vincennes, Ind., have been adopted for a \$25,000 high school.

IOWA.

Des Moines—Smith & Gage, architects, 300 Youngerman building, planned the new library here. Fort Dodge—Architect J. H. Albright has prepared plans for the 6-room school for Sacred Heart church; \$15,000. Guttenberg—Architect John P. Larkins, 410 Security building, Dubuque, Ia., is preparing plans for a new school here. Dallas Center—Proudfoot & Bird, architects, Des Moines, Ia., drew plans for a \$10,000 school here. Fort Dodge—J. A. Albright, architect, has plans for the Sacred Heart parochial school to be erected here. Davenport—A new high school to be erected. Montezuma—Architects C. E. Eastman Co., Des Moines, Ia., have prepared plans for addition to high school. Shenandoah—A 4-room school, to cost \$11,000, to be erected, according to plans of Architect John Latenser, Omaha, Neb. Missouri Valley—A \$12,000 school

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to be erected, planned by Architect John Latenser, Omaha, Neb. Olin—Architect J. W. Ross, Davenport, Ia., is preparing plans for a high school here. Marshalltown—A 3-room school contemplated for Taylor township; \$3,000. A. C. Thompson, Haverhill—A \$1,200 school to be erected in No. 7, Timber Creek township. Write R. H. Hughes. Bedford—A \$23,000 school contemplated. Ocheyedan—A \$15,000 school, planned by Murphy & Ralston, architects, Waterloo, Ia., to be built. Denison—Cox & Shoengen, architects, Balding building, Council Bluffs, Ia., have plans for a new Carnegie library here. Ladora—A 4-room school to be erected, according to plans of Architects Prescott & Co., Marshalltown, Ia. Swea City—Architect C. H. Patsche, Fairmont, Minn., has prepared plans for a 4-room school to be erected; \$6,000. Write Rev. Fr. Edmond Heelan, pastor. Coon Rapids—A 5-room school contemplated. Write A. G. Hufferd. Durand—Architect D. J. Harfst, Davenport, Ia., has prepared plans for a new \$9,000 school. Montezuma—An addition to be erected to high school, according to plans of Architect C. E. Eastman company, Des Moines. Charles City—Architects Patton & Miller, 153 La Salle street, Chicago, will prepare plans for a \$12,500 Carnegie library. Monticello—Architects Patton & Miller will prepare plans for a \$12,500 library here. Mason City—Architects Patton & Miller are preparing plans for the \$30,000 library here. Urbana—Architect M. S. Sutton, Vinton, Ia., has plans for a \$2,000 school for the Independent school district. Pella—Architect Geo. Pass, Mankato, Minn., has prepared plans for a \$20,000 school here. Mason City—Architects Patton & Miller, 153 La Salle street, Chicago, Ill., are preparing plans for a \$65,000 high school.

KANSAS.

Topeka—A \$68,000 high school to be erected, to contain thirty rooms. Write Supt. Davidson. Nickerson—County high school to be built. Newton—A library to be erected. C. F. Beuer, secretary library board. Kansas City—Architect W. W. Rose, Kansas City, Mo., has plans for a \$10,000 addition to high school. Topeka—Architect L. M. Wood, 627 Kansas avenue, has prepared plans for an 8-room school; \$20,000. Hoisington—Architect L. M. Wood, Topeka, has prepared plans for an 8-room school; \$15,000. Lawrence—Architect George A. Berlinghof, Beatrice, Neb., has plans for the new library here.

KENTUCKY.

Madisonville—A \$25,000 school to be erected. Owensboro—Architect J. M. Whitehead has plans for a school for Cruston (about 6 miles from Owensboro). Lexington—Architect H. L. Rowe has plans for new school. Madisonville—The Atkinson College, recently destroyed

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MAINE.

Ft. Fairfield—Archts. Coombs & Gibbs, 215 Lisbon street, Lewiston, Me., have plans for a 10-room school; \$20,000. South Paris—Arch. Wm. R. Miller, Osgood Bldg., Lewiston, Me., has plans for a \$10,000 school. Portland—Arch. A. W. Longtree, Tremont Bldg., Boston, Mass., drew plans for library for Maine Historical Society. Bangor—Arch. W. E. Mansur has prepared plans for an addition to the high school; \$12,000. Pittsfield—A \$15,000 library to be erected. Add., Wm. Dobson. Gorham—Archts. F. H. & E. F. Fassett, Portland, Me., have prepared plans for an addition to Normal school.

MARYLAND.

Cumberland—Arch. Julius Wenig, 655 New York avenue, Washington, D. C., has prepared plans for a school for St. Mary's congregation. Rev. E. J. Wunder, pastor. Baltimore—New school to be erected at Hollins and Amity streets; \$60,000. A new building contemplated at Southwest Baltimore, to cost \$60,000; also a \$60,000 building in Northeast Baltimore; an addition erected to school 64, to cost \$20,000, an addition to school 91, to cost \$20,000, an annex to school 53, to cost \$40,000, and a new school to be erected in Southeast Baltimore, to cost \$60,000. A new school to be erected, to cost \$10,000, at Irvington, near Baltimore. Address, Baltimore County Commissioners.

MASSACHUSETTS.

Lawrence—New \$60,000 grammar school to be erected in Second ward, 16 rooms; John Ashton, Arch. Marblehead—\$30,000 school to be erected. Address, John B. Gifford, Supt. Schools. Lynn—A manual training school contemplated. Address, Mayor Eastman. Taunton—New library contemplated. L. C. Couch, acting mayor. Beverly Farms—A school to be erected, according to plans of Archts. Killiam & Hopkins, 9 Bark street, Boston. Attleboro—Arch. Chas. A. Brigham, Boston, has prepared plans for the enlargement of the high school. Boston—A. Wadsworth Longfellow, Archt., has plans for grammar school at Dorchester. Jamaica Plain (Sta. Boston)—Chas. B. Perkins, Archt., Boston, Mass., has plans for the Francis Parkman school here. Woburn—A new high school contemplated. \$90,000 appropriated for the purpose. John H. Finn, city clerk. Milford—Two 4-room schools, costing \$10,000 each, to be erected. Robt. A. Cook and Walter L. Collins, Archts. Boylston—Archts. Barker & Nourse, Boston, have prepared plans for a school here. Fayville—G. W. Lewis, 14 Beacon street, Boston, has plans for a school; \$3,500. Hull—Arch. Tristram Griffen, 114 State street, Boston, has plans for a \$6,000 school. Chicopee—Arch. W. B. Reid, Holyoke, Mass., has completed plans for a parochial school to be erected. Marblehead—Archts. Kilham & Harper, Boston, have plans for a \$40,000 school here. Oxford—Arch. W. J. Patsen, Worcester, Mass., has plans for a \$3,000 school. Marlboro—A \$30,000 Carnegie library to be erected. Address, Councilman McCarthy. Lawrence—An addition to be erected to the Arlington school. Address, Asst. City Clerk, C. F. Riley. Hull—Arch. Tustam Griffen, 114 State street, Boston, has plans for a \$6,000 addition to school here. Boylston—Archts. Barker & Nourse, 425 Main street, Worcester, Mass., have plans for a \$12,000 school. Tewksbury—Arch. H. P. Graves, Glidden Bldg., Lowell, Mass., has plans for an 8-room school. Wigginsville. Worcester—New Hebrew school, to cost \$8,000, to be erected. Address, Jacob Lewis, Pres. Committee. Wenham—A \$15,000 school to be built; 4 rooms. Mansfield—New high school contemplated.

MICHIGAN.

South Boardman—Arch. W. A. Dean, Traverse City, Mich., has prepared plans for new \$4,000 school to be erected. Hartford—New school contemplated. Jackson—Ferry & Clas, Archts., Milwaukee, Wis., have prepared plans for new Carnegie library to be erected. Onondaga—A school to be erected, according to plans of Edwin A. Bond, Archt., Lansing, Mich. Pewamo—Arch. G. M. Edwards, Owosso, Mich., has plans for a 4-room school; \$7,000. Calumet—Arch. C. W. Maas has plans for a \$6,000 school here. Ionia—Arch. Harry J. Rill, Detroit, has prepared plans for an academy building for St. Peter's Academy; \$20,000. Circle—Archts. Fisher Bros., Pontiac, Mich., have prepared plans for school for Dist. No. 2, Bloomfield Township. Lansing—Normal school contemplated. Write Delos Fall, State Supt. Detroit—Archts. Malcomson & Higginbotham, 53 Moffat Bldg., have plans for an addition to school; \$18,000. Elsie—Arch. G. M. Edwards, Owosso, Mich., has plans in preparation for a \$15,000 school. Marquette—Arch. John D. Chubb, Chicago

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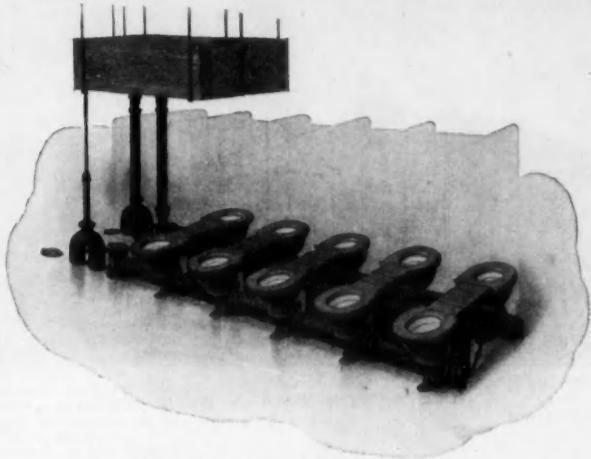
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Opera House Blk., Chicago, Ill., is preparing plans for a \$35,000 Roman Catholic parochial school. Houghton—The legislature has appropriated \$176,000 for an additional building for Michigan College of Mines. F. W. McNair, Secy. Board, Houghton. Scottville—A 4-room school addition to be built. Frank A. Noyes. Grand Rapids—New Central high school contemplated. Dollar Bay—Arch. H. T. Liebert, Hancock, has plans for an 8-room school; \$12,000. Hartford—Arch. Fairfield has plans for remodeling and enlarging school here. River Rouge—\$42,000 bonds issued for new school. Kalkaska—A 6-room addition to be erected, at a cost of \$7,000. Menominee—A library to be erected, to cost \$30,000. F. S. Norcross, City Clerk, Manistee—Arch. Geo. L. Harvey, Port Huron, Mich., will draw the plans for the \$35,000 Carnegie library.

MINNESOTA.

Minneapolis—A 4-room addition to be erected to Horace Mann school; 8-room to Bryant school; new school in Laurel district. Big Lake—A 4-room school to be erected. John M. Haven, Clerk, district No. 4. Plainview—A \$28,000 school to be erected. Little Falls—Plans of Omeyer & Thorl, Archts., St. Paul, Minn., were accepted for the 8-room school, \$13,000. Lesueur Center—Fremont D. Orff, Archt., Minneapolis, has plans for new school. Chokio—New school to be erected, according to plans of Fremont D. Orff. Ollivia—Fremont D. Orff, Minneapolis, has plans for new high school here. St. Charles—A school contemplated. Write W. T. Spencer, Clerk. Hutchinson—New Ansgar College to be built. Archt. Edw. S. Stebbins, Minneapolis. Otisville—A new school to be erected, Dist. No. 5, town of Franconia. Houston—Archts. Schick & Roth, La Crosse, Wis., have prepared plans for new school. Fergus Falls—A high school contemplated. Write Prof. J. A. Bandyke, Supt. Wilmar—Archts. Schick & Roth, La Crosse, Wis., have prepared plans for a library. Cottonwood—A 6-room school to be erected, planned by Archts. Maurice A. Hockman & Co., Water-town, S. D. Grand Rapids—Arch. Fremont D. Orff, Minneapolis, planned new school. Tyler—Arch. A. J. Van Deusen, Winona, Minn., is preparing plans for an \$18,000 school.

Mount Iron—An addition to school to be erected, according to plans of Young & Nystrom, Duluth, Minn. South St. Paul—An addition to be erected to Simon school.

MISSISSIPPI.

McComb—Arch. P. H. Weathers, Jackson, Miss., is preparing plans for a \$25,000 school. Meridian—Archts. Krouse & Hutchinson have plans for a college building for J.W. Reeson.

MISSOURI.

Columbia—Arch. F. P. Miller has prepared plans for an academy for J. B. Welch; \$16,000. Canton—Archts. J. B. Legg and C. S. Holloway, 715 Locust street, St. Louis, Mo., have completed plans for Christian University building, to cost \$35,000. Graham—Arch. A. A. Searcy, Marysville, Mo., has plans for a 6-room school to be erected; \$8,000. Cameron—The Missouri Wesleyan College contemplated erecting a

\$40,000 addition to same. Keytesville—Arch. W. L. Garver, Chillicothe, Mo., has prepared plans for a \$6,000 school here. Webb City—A \$3,000 addition to be erected to a ward school. Address, J. T. Aldridge, Clerk School Board. Carterville—A \$20,000 school to be built. Address, Clerk School Board. Kansas City—Humboldt school to be erected; \$10,000. Graham—Arch. A. A. Searcy, Maryville, Mo., has plans for the 6-room school to be built; \$8,000. Carterville—J. A. Prather, Archt., Carthage, Mo., has plans for the new high school. Moberly—Archts. Legg & Holloway, St. Louis, have plans for new library here. Burceon—A \$7,000 school to be erected. Alexandria—New high school to be erected.

MONTANA.

Kalispel—Plans submitted by Archts. Gibson & Shanley, this city, for the county high school to be built, were accepted. Dillon—Addition to be erected to State Normal school. A. L. Stone, Secy. Culbertson—Arch. J. W. Ross has plans for an 8-room school. Poplar—A new school contemplated. A. O. Davis, chairman.

NEBRASKA.

Friend—Arch. John Latenser, Omaha, Nebr., has plans for an 8-room school to be erected; \$18,000. Wilber—Arch. John Latenser, Omaha, has plans for a school, to cost \$17,500; 8 rooms. Louisville—Arch. John Latenser, Omaha, planned the new \$16,000 school to be built here; 8 rooms. Hastings—New high school will be built. Grand Island—New library to be erected. Seward—A new \$10,000 school to be erected. Preston—Arch. A. E. Hofer, Falls City, Nebr., has prepared plans for an addition to school. South Omaha—A \$10,000 high school contemplated. Genoa—Arch. Geo. A. Berlinghof, Beatrice, Nebr., has plans for a school here. Seward—A \$10,000 high school to be erected.

NEVADA.

Elko—\$3,000 bonds to be voted on for addition to school.

NEW HAMPSHIRE.

Franconia—Chase R. Whitener, Archt., Lisbon, N. H., drew plans for the new Dow academy.

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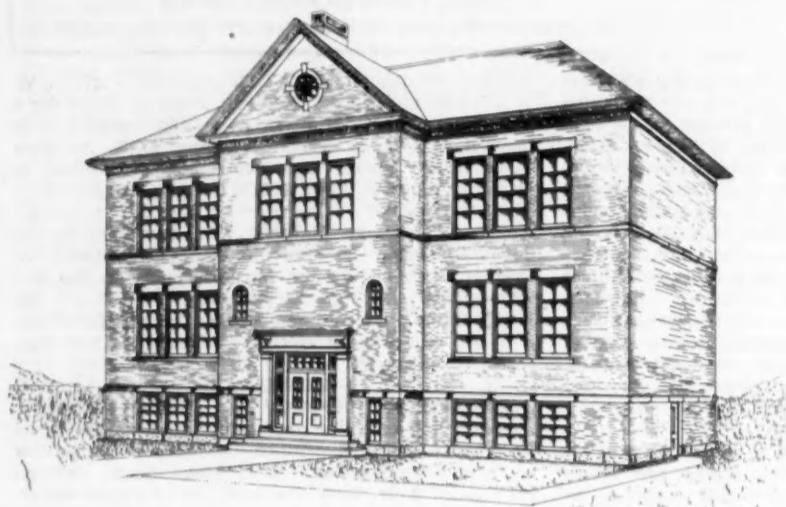
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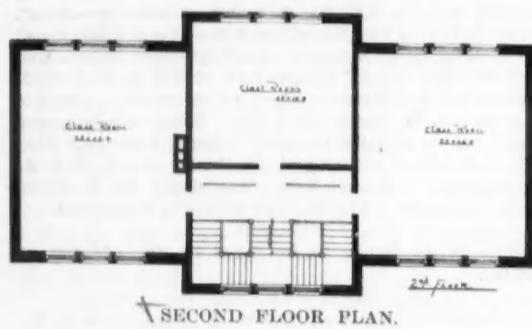
SIDE ELEVATION, NEW RITENOUR SCHOOL, ST. LOUIS COUNTY, MO.
C. W. Pomeroy, Architect, St. Louis, Mo.



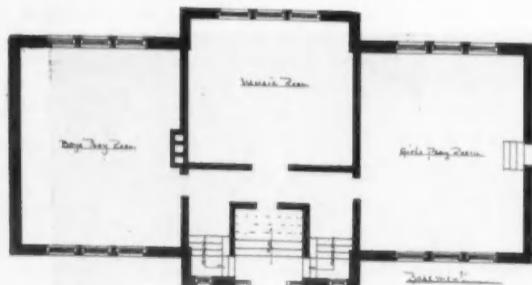
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D. Bloomfield, Architect.



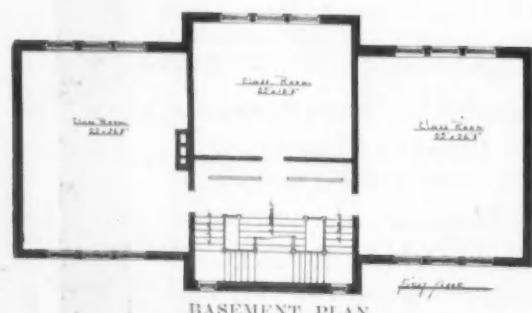
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Central Sch Supp H....Chicago & N Y
American School Furn Works
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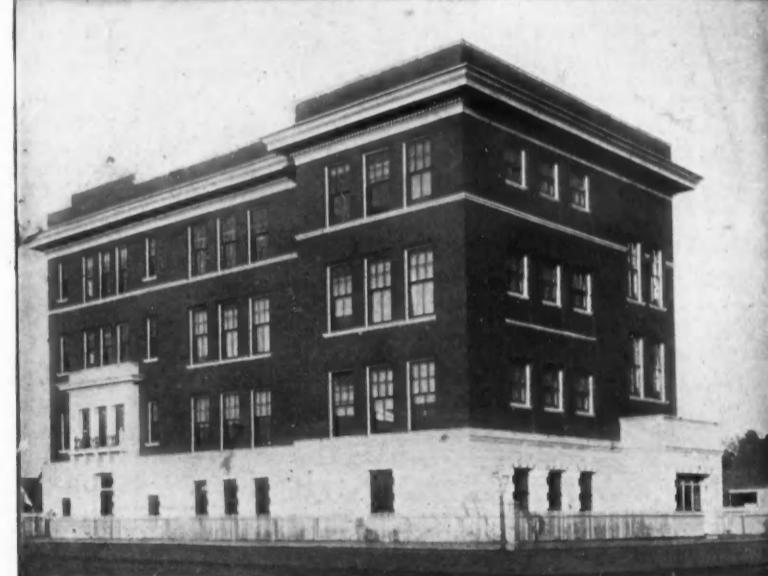
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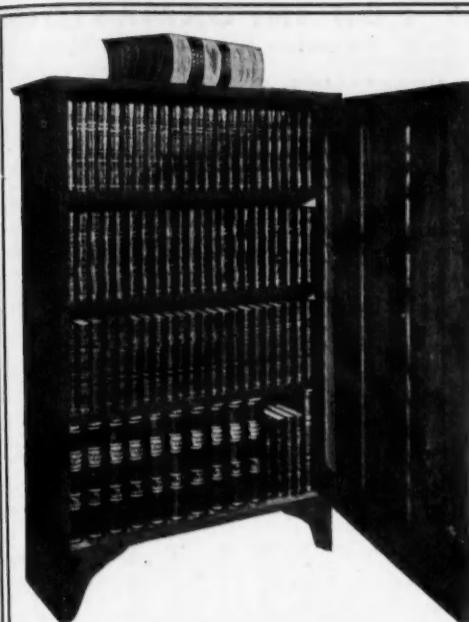
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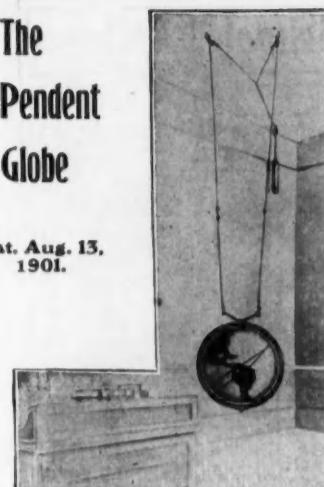
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